

# Parts Lists

## 7.1 Introduction

This chapter contains the parts lists for all major and minor assemblies in the Series 8540C Universal Power Meters. Parts lists for available Options are in Appendix C under the respective option heading. A List of Manufacturers is included in Section 7.3.

## 7.2 Parts Lists for Series 8540C Universal Power Meters

If not otherwise specified, the following parts lists apply to both the Model 8541C and 8542C power meters.

| <b>8541C SINGLE CHANNEL POWER METER, Rev. C</b> |                    |            |             |                          |                                |
|-------------------------------------------------|--------------------|------------|-------------|--------------------------|--------------------------------|
| <b>Item</b>                                     | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>             |
| 1                                               | 30160              | 1          | 58900       | 30160                    | 8541C CHASSIS ASSY             |
| 2                                               | 30280              | 1          | 58900       | 30280                    | SERIES 8540C OPER/MAINT MANUAL |
| 3                                               | WMP0-03007         | 1          | 16428       | 17250                    | 7.5' IEC POWER CORD            |
| 4                                               | 20954-001          | 1          | 54516       | 20954-001                | DET EXT CABLE ASSY 1.5M (5 FT) |
| 5                                               | 30614              | 1          | 58900       | 30614                    | STANDARD COVER                 |
| 6                                               | HFFB-00001         | 2          | 62559       | 10603-023                | TIP-UP FOOT                    |
| 7                                               | HFFB-00002         | 2          | 62559       | 10603-024                | GRAY FOOT                      |
| 8                                               | 21301              | 2          | 58900       | 21301                    | SIDE TRIM, 8540                |
| 9                                               | 21118              | 1          | 58900       | 21118                    | LABEL, TESTED BY               |
| 10                                              | GGSO-00006         | 22         | 58900       | GGSO-00006               | GROUND STRIP                   |
| 11                                              | HBPP-44004         | 3          | 26233       | NS137CR440R4             | 4-40 X 1/4 PAN                 |
| 12                                              | HBPP-44006         | 4          | 26233       | NS137CR440R6             | 4-40 X 3/8 PAN                 |
| 13                                              | 30016              | REF        | 58900       | 30016                    | 8540 SYSTEM TEST PROCED        |

## Series 8540C Universal Power Meters

| 30160 8541C CHASSIS ASSY, Rev. L |             |     |       |                   |                               |
|----------------------------------|-------------|-----|-------|-------------------|-------------------------------|
| Item                             | Part Number | Qty | Cage  | Mfr's Part Number | Description                   |
| 1                                | 30157       | 1   | 58900 | 30157             | FRONT DEC. PANEL 8541C FAB    |
| 2                                | 21200       | 1   | 58900 | 21200             | CHASSIS                       |
| 3                                | 30506       | 1   | 0JBU8 | 30506             | 854X TOROIDAL PWR XFMR        |
| 4                                | JLFF-16250  | 1   | 05245 | 6EDL4C            | AC INPUT MODULE               |
| 5                                | SPP3-00202  | 1   | 58900 | SPP3-00202        | 250VAC PUSHBUTTON SWITCH      |
| 6                                | 30161       | REF | 58900 | 30161             | 8540C SERIES SCHEMATIC        |
| 7                                | 10129       | 1   | 58900 | 10129             | LABEL, CODE AND SERIAL NUMBER |
| 8                                | 30508       | 1   | 58900 | 30508             | 854XC XFMR SPACER             |
| 10                               | SPA0-00012  | 1   | 31918 | FSC-BLACK         | BLACK BUTTON                  |
| 11                               | JMPF-00003  | 6   | 09769 | 60617-1           | FEMALE PIN                    |
| 12                               | JMF0-00605  | 1   | 09769 | 1-480270-0        | 6 POSITION SKT HOUSING        |
| 13                               | 30449       | 1   | 58900 | 30449             | HIGH VOLTAGE LABEL            |
| 14                               | 30438       | 1   | 58900 | 30438             | PROM SET,MODEL 854XC          |
| 15                               | HIR0-00001  | 4   | 0HFJ2 | 27SR0018          | NYLON SNAP RIVET              |
| 16                               | HQIS-00003  | 1   | 13103 | 21323             | SILICONE INSULATOR            |
| 17                               | 30013       | REF | 58900 | 30013             | 8540 SERIES JIT FLOW CHART    |
| 18                               | 30552       | REF | 58900 | 30552             | 8540C PRETEST PROCEDURE       |
| 19                               | HT00-00409  | 3   | 53421 | T-18R             | 4 WHITE CABLE TIE             |
| 20                               | WKC1-00000  | 1   | 92194 | FIT-221-1 CLEAR   | 1" CLEAR SHRINK TUBING        |
| 21                               | 30553       | REF | 58900 | 30553             | 8540C CALIB PROCEDURE         |
| 22                               | 30017       | REF | 58900 | 30017             | 8540 CABINETIZING PROC        |
| 23                               | 12936       | 1   | 16428 | 8723              | CABLE SHIELD 4 COND           |
| 24                               | WGS0-00020  | 0   | 51705 | SLV-130-20        | 20 GA 'GLASS' SLEEVING        |
| 25                               | WKAC-18708  | 2   | 92194 | FIT221-1/8 X 1    | 3/16 X 1/2 SHRINK TUB         |
| 27                               | WKA0-12500  | 0   | 92194 | FIT-221-1/8-BLACK | 1/8" BLACK SHRINK TUBING      |
| 28                               | HIBR-00440  | 2   | 53387 | SJ5303-CLEAR      | MOLDED BUMPER                 |
| 29                               | 32023       | 0   | ----- | 32023             | CODE LABEL                    |
| 101                              | HBFP-63205  | 2   | 58900 | HBFP-63205        | 6-32 X 5/16 FLAT              |
| 102                              | HNSS-63205  | 2   | 58900 | HNSS-63205        | 6-32 HEX NUT                  |
| 103                              | HBPP-63204  | 4   | 58900 | HBPP-63204        | 6-32 X 1/4 PAN                |
| 104                              | 10116-004   | 2   | 58900 | 10116-004         | SCR, PNH PHILLIPS 2-56x.125   |
| 105                              | JMSF-00003  | 1   | 09769 | 552633-3          | IEEE CONN MOUNTING            |
| 106                              | HBFP-83240  | 1   | 58900 | HBFP-83240        | 8-32 X 2.5 FLAT               |
| 107                              | HNNS-83205  | 1   | 58900 | HNNS-83205        | 8-32 LOCKING NUT              |
| 108                              | 10148-002   | 1   | 2R182 | 1415-6            | SOLDER LUG, 30 DEG LOCKING #6 |
| 109                              | WSIB-1854X  | 1   | 92194 | UL1429-18 (19)    | 18 GA PVC COLOR 54            |
| 110                              | HLLT-60212  | 1   | 79963 | 505-144 # 6       | #6 SOLDER LUG                 |
| 111                              | 20192       | 1   | 58900 | 20192             | SHELL,OBLONG                  |
| 112                              | 20259       | 1   | 58900 | 20259             | COVER,CALIBRATOR HOUSING      |
| 113                              | 20800       | 1   | 58900 | 20800             | LABEL,US PATENT 4,794,325     |
| A1                               | 21693       | 1   | 58900 | 21693             | CPU PCB ASSY 854xB            |
| A2                               | 30164       | 1   | ----- | 30164             | 8541C ANALOG P.C. ASSY        |
| A5                               | 21331       | 1   | 58900 | 21331             | FRONT PANEL ASSY, 8541        |
| F1                               | FSAC-00075  | 1   | ----- | MDL-3/4           | .75A SB FUSE 3AG              |
| RT1                              | QX00-00275  | 1   | 58900 | QX00-00275        | 275 V METAL OXIDE VAR.        |
| W3                               | 21175-002   | 1   | 58900 | 21175-002         | CABLE ASSY,CPU-GPIB           |

| <b>21331 FRONT PANEL ASSY, 8541C, Rev. B</b> |                    |            |             |                          |                            |
|----------------------------------------------|--------------------|------------|-------------|--------------------------|----------------------------|
| <b>Item</b>                                  | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>         |
| 1                                            | 21153              | 1          | 58900       | 21153                    | KEY PAD                    |
| 3                                            | 21655              | 1          | -----       | 21655                    | BEZEL, CAST, 3-1/2 X 8-3/8 |
| 101                                          | HBPP-440X3         | 11         | 58900       | HBPP-440X3               | 4-40 X 7/32 PAN            |
| 102                                          | HWSS-40300         | 11         | 58900       | HWSS-40300               | #4 X 3/16 SPLIT LOCK       |
| 103                                          | HBFP-44006         | 4          | 58900       | HBFP-44006               | 4-40 X 3/8 FLAT            |
| 104                                          | HNKS-44004         | 4          | 58900       | HNKS-44004               | 4-40 KEP NUT               |
| 105                                          | WKA0-75000         | 2          | 92194       | FIT-221-3/4              | 3/4 SHRINK TUBING          |
| 106                                          | HWFS-40400         | 2          | 58900       | HWFS-40400               | #4 X 1/4 FLAT WASHER       |
| A3                                           | 21229              | 1          | 58900       | 21229                    | FRONT PANEL PCB ASSY       |
| A4                                           | 21240              | 1          | 58900       | 21240                    | LCD DISPLAY ASSY           |
| W2                                           | 21217              | 1          | 58900       | 21217                    | CABLE ASSY,DIG-FRONT       |
| W4                                           | 21198              | 1          | 58900       | 21198                    | CABLE ASSY,CAL             |
| W5                                           | 21199              | 1          | 58900       | 21199                    | CABLE ASSY, SENSOR INPUT   |

| <b>8542C DUAL CHANNEL POWER METER, Rev. C</b> |                    |            |             |                          |                                |
|-----------------------------------------------|--------------------|------------|-------------|--------------------------|--------------------------------|
| <b>Item</b>                                   | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>             |
| 1                                             | 30172              | 1          | 58900       | 30172                    | CHASSIS ASSY - 8542C           |
| 2                                             | 30280              | 1          | 58900       | 30280                    | SERIES 8540C OPER/MAINT MANUAL |
| 3                                             | WMP0-03007         | 1          | 16428       | 17250                    | 7.5' IEC POWER CORD            |
| 4                                             | 20954-001          | 2          | 54516       | 20954-001                | DET EXT CABLE ASSY 1.5M (5 FT) |
| 5                                             | 30614              | 1          | 58900       | 30614                    | STANDARD COVER                 |
| 6                                             | HFFB-00001         | 2          | 62559       | 10603-023                | TIP-UP FOOT                    |
| 7                                             | HFFB-00002         | 2          | 62559       | 10603-024                | GRAY FOOT                      |
| 8                                             | 21301              | 2          | 58900       | 21301                    | SIDE TRIM, 8540                |
| 9                                             | 21118              | 1          | 58900       | 21118                    | LABEL, TESTED BY               |
| 10                                            | GGSO-00006         | 22         | 58900       | GGSO-00006               | GROUND STRIP                   |
| 11                                            | HBPP-44004         | 3          | 26233       | NS137CR440R4             | 4-40 X 1/4 PAN                 |
| 12                                            | HBPP-44006         | 4          | 26233       | NS137CR440R6             | 4-40 X 3/8 PAN                 |
| 13                                            | 30016              | REF        | 58900       | 30016                    | 8540 SYSTEM TEST PROCED        |

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| 30172 CHASSIS ASSY, 8542C, Rev. M |             |     |       |                   |                               |
|-----------------------------------|-------------|-----|-------|-------------------|-------------------------------|
| Item                              | Part Number | Qty | Cage  | Mfr's Part Number | Description                   |
| 1                                 | 30170       | 1   | 58900 | 30170             | 8542C FRONT DEC PANEL         |
| 2                                 | 21200       | 1   | 58900 | 21200             | CHASSIS                       |
| 3                                 | 30506       | 1   | 0JBU8 | 30506             | 854X TOROIDAL PWR XFMR        |
| 4                                 | JLFF-16250  | 1   | 05245 | 6EDL4C            | AC INPUT MODULE               |
| 5                                 | SPP3-00202  | 1   | 58900 | SPP3-00202        | 250VAC PUSHBUTTON SWITCH      |
| 6                                 | 30161       | REF | 58900 | 30161             | 8540C SERIES SCHEMATIC        |
| 7                                 | 10129       | 1   | 58900 | 10129             | LABEL, CODE AND SERIAL NUMBER |
| 8                                 | 30508       | 1   | 58900 | 30508             | 854XC XFMR SPACER             |
| 9                                 | 30013       | REF | 58900 | 30013             | 8540 SERIES JIT FLOW CHART    |
| 10                                | SPA0-00012  | 1   | 31918 | FSC-BLACK         | BLACK BUTTON                  |
| 11                                | JMPF-00003  | 6   | 09769 | 60617-1           | FEMALE PIN                    |
| 12                                | JMF0-00605  | 1   | 09769 | 1-480270-0        | 6 POSITION SKT HOUSING        |
| 13                                | 30449       | REF | 58900 | 30449             | HIGH VOLTAGE LABEL            |
| 14                                | 30438       | 1   | 58900 | 30438             | PROM SET,MODEL 854XC          |
| 15                                | HIRO-00001  | 4   | 0HFJ2 | 27SR0018          | NYLON SNAP RIVET              |
| 16                                | HQIS-00003  | 1   | 13103 | 21323             | SILICONE INSULATOR            |
| 17                                | 30552       | REF | 58900 | 30552             | 8540C PRETEST PROCEDURE       |
| 18                                | 30553       | REF | 58900 | 30553             | 8540C CALIB PROCEDURE         |
| 19                                | HT00-00409  | 3   | 53421 | T-18R             | 4 WHITE CABLE TIE             |
| 20                                | WKC1-00000  | 1   | 92194 | FIT-221-1 CLEAR   | 1" CLEAR SHRINK TUBING        |
| 21                                | 30017       | REF | 58900 | 30017             | 8540 CABINETIZING PROC        |
| 22                                | 12936       | 1   | 16428 | 8723              | CABLE SHIELD 4 COND           |
| 23                                | WGS0-00020  | 0   | 51705 | SLV-130-20        | 20 GA 'GLASS' SLEEVEING       |
| 24                                | WKAC-18708  | 2   | 92194 | FIT221-1/8 X 1    | 3/16 X 1/2 SHRINK TUB         |
| 26                                | WKA0-12500  | 0   | 92194 | FIT-221-1/8-BLACK | 1/8" BLACK SHRINK TUBING      |
| 27                                | HIBR-00440  | 2   | 53387 | SJ5303-CLEAR      | MOLDED BUMPER                 |
| 28                                | 32023       | 0   | ----- | 32023             | CODE LABEL                    |
| 101                               | HBFP-63205  | 2   | 58900 | HBFP-63205        | 6-32 X 5/16 FLAT              |
| 102                               | HNSS-63205  | 2   | 58900 | HNSS-63205        | 6-32 HEX NUT                  |
| 103                               | HBPP-63204  | 4   | 58900 | HBPP-63204        | 6-32 X 1/4 PAN                |
| 104                               | 10116-004   | 2   | 58900 | 10116-004         | SCR, PNH PHILLIPS 2-56x.125   |
| 105                               | JMSF-00003  | 1   | 09769 | 552633-3          | IEEE CONN MOUNTING            |
| 106                               | HBFP-83240  | 1   | 58900 | HBFP-83240        | 8-32 X 2.5 FLAT               |
| 107                               | HNNS-83205  | 1   | 58900 | HNNS-83205        | 8-32 LOCKING NUT              |
| 108                               | 10148-002   | 1   | 2R182 | 1415-6            | SOLDER LUG, 30 DEG LOCKING #6 |
| 109                               | WSIB-1854X  | 1   | 92194 | UL1429-18 (19)    | 18 GA PVC COLOR 54            |
| 110                               | HLLT-60212  | 1   | 79963 | 505-144 # 6       | #6 SOLDER LUG                 |
| 111                               | 20192       | 1   | 58900 | 20192             | SHELL,OBLONG                  |
| 112                               | 20259       | 1   | 58900 | 20259             | COVER,CALIBRATOR HOUSING      |
| 113                               | 20800       | 1   | 58900 | 20800             | LABEL,US PATENT 4,794,325     |
| A1                                | 21693       | 1   | 58900 | 21693             | CPU PCB ASSY 854xB            |
| A2                                | 30173       | 1   | ----- | 30173             | 8542C ANALOG PC ASSY          |
| A5                                | 21332       | 1   | 58900 | 21332             | FRONT PANEL ASSY, 8542B       |
| F1                                | FSAC-00075  | 1   | ----- | MDL-3/4           | .75A SB FUSE 3AG              |
| R1                                | QX00-00275  | 1   | 58900 | QX00-00275        | 275 V METAL OXIDE VAR.        |
| W3                                | 21175-002   | 1   | 58900 | 21175-002         | CABLE ASSY,CPU-GPIB           |

**21332 FRONT PANEL ASSY, 8542B, Rev. C (A1)**

| Item | Part Number | Qty | Cage  | Mfr's Part Number | Description                |
|------|-------------|-----|-------|-------------------|----------------------------|
| 1    | 21153       | 1   | 58900 | 21153             | KEY PAD                    |
| 3    | 21655       | 1   | ----- | 21655             | BEZEL, CAST, 3-1/2 X 8-3/8 |
| 101  | HBPP-440X3  | 11  | 58900 | HBPP-440X3        | 4-40 X 7/32 PAN            |
| 102  | HWSS-40300  | 11  | 58900 | HWSS-40300        | #4 X 3/16 SPLIT LOCK       |
| 103  | HBFP-44006  | 4   | 58900 | HBFP-44006        | 4-40 X 3/8 FLAT            |
| 104  | HNKS-44004  | 4   | 58900 | HNKS-44004        | 4-40 KEP NUT               |
| 105  | WKA0-75000  | 2   | 92194 | FIT-221-3/4       | 3/4 SHRINK TUBING          |
| 106  | HWFS-40400  | 2   | 58900 | HWFS-40400        | #4 X 1/4 FLAT WASHER       |
| A3   | 21229       | 1   | 58900 | 21229             | FRONT PANEL PCB ASSY       |
| A4   | 21240       | 1   | 58900 | 21240             | LCD DISPLAY ASSY           |
| W2   | 21217       | 1   | 58900 | 21217             | CABLE ASSY,DIG-FRONT       |
| W4   | 21198       | 1   | 58900 | 21198             | CABLE ASSY,CAL             |
| W5   | 21199       | 1   | 58900 | 21199             | CABLE ASSY, SENSOR INPUT   |
| W6   | 21199       | 1   | 58900 | 21199             | CABLE ASSY, SENSOR INPUT   |

**21693 CPU PCB ASSY, 854xB, Rev. J (A1)**

| Item | Part Number | Qty | Cage  | Mfr's Part Number | Description              |
|------|-------------|-----|-------|-------------------|--------------------------|
| 3    | 21719       | 1   | 58900 | 21719             | 21719 LABEL, CPU 854X    |
| 4    | VB00-00360  | 1   | 58900 | VB00-00360        | 3.6 VOLT LITHIUM BATTERY |
| 5    | HIBR-00440  | 8   | 53387 | SJ5303-CLEAR      | MOLDED BUMPER            |
| 6    | 21693-A00   | 1   | 58900 | 21693-A00         | PCB ASSY PREWAVE, CPU    |
| 7    | HIGP-00312  | 4   | 58900 | HIGP-00312        | PLASTIC LATCH GROMMET    |
| 8    | HIPP-00312  | 4   | 58900 | HIPP-00312        | PLASTIC LATCH PLUNGER    |
| C6   | CE16-R8470  | 1   | 55680 | UVX1C472MHA       | >4700 UF >16V RADIAL     |
| C9   | CE25-R8471  | 1   | 55680 | UVX1E472MHA       | 4700UF 25V RADIAL        |
| C12  | CE25-R8471  | 1   | 55680 | UVX1E472MHA       | 4700UF 25V RADIAL        |
| C54  | CE16-R8470  | 1   | 55680 | UVX1C472MHA       | >4700 UF >16V RADIAL     |
| C55  | CE25-R7470  | 1   | 55680 | UVX1E471M         | 470 UF 25V RADIAL        |
| J1   | JIB2-50100  | 1   | 09769 | 2-534206-5        | 50 PIN STRIPLINE SOCKET  |
| J4   | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT    |
| J5   | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT    |
| J7   | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT    |
| R16  | RAPA-22002  | 1   | 58900 | RAPA-22002        | 20K POT 1T PC MOUNT      |
| U4   | 21699       | 1   | 58900 | 21699             | PAL,PROG,MODEL 8540B     |
| U27  | UMN0-51001  | 1   | 4T165 | UPD431000ACZ-70L  | TC551001BPL-10 1M RAM    |
| U28  | UMN0-51001  | 1   | 4T165 | UPD431000ACZ-70L  | TC551001BPL-10 1M RAM    |
| U37  | URC0-02940  | 1   | 27014 | LM2940CT-5        | LM2940CT-5 1A 5V REG     |
| U38  | URC0-02940  | 1   | 27014 | LM2940CT-5        | LM2940CT-5 1A 5V REG     |
| U39  | URC1-02940  | 1   | 27014 | LM2940CT-15       | LM2940CT-15 1A 15V REG   |
| U40  | URC0-02990  | 1   | 27014 | LM2990T-15        | LM2990T-15 1A -15V REG   |
| W 3A | 17240-001   | 1   | 27264 | 15-38-1024        | JUMPER,INSULATED,2 POS   |
| W 3C | 17240-001   | 1   | 27264 | 15-38-1024        | JUMPER,INSULATED,2 POS   |

## Series 8540C Universal Power Meters

| <b>21693 CPU PCB ASSY, 854xB, Rev. J (A1) (Continued)</b> |                    |            |             |                          |                        |
|-----------------------------------------------------------|--------------------|------------|-------------|--------------------------|------------------------|
| <b>Item</b>                                               | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>     |
| W 3D                                                      | 17240-001          | 1          | 27264       | 15-38-1024               | JUMPER,INSULATED,2 POS |
| W 3E                                                      | 17240-001          | 1          | 27264       | 15-38-1024               | JUMPER,INSULATED,2 POS |
| W 3F                                                      | 17240-001          | 1          | 27264       | 15-38-1024               | JUMPER,INSULATED,2 POS |
| W 3H                                                      | 17240-001          | 1          | 27264       | 15-38-1024               | JUMPER,INSULATED,2 POS |

| <b>21693-A00 PCB ASSY PREWARE, CPU, Rev. H (A1)</b> |                    |            |             |                          |                        |
|-----------------------------------------------------|--------------------|------------|-------------|--------------------------|------------------------|
| <b>Item</b>                                         | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>     |
| 1                                                   | 21694              | REF        | 58900       | 21694                    | SCHEMATIC, CPU         |
| 2                                                   | 21094              | 1          | 58900       | 21094                    | PCB, CPU               |
| 3                                                   | JIA0-01443         | 113        | 58900       | JIA0-01443               | CONTACT POST           |
| C1                                                  | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C2                                                  | CE25-R7100         | 1          | 00656       | AMR101M025               | 100 UF 25V RADIAL LEAD |
| C3                                                  | CE50-R6100         | 1          | 55680       | UVX1H100MDA              | 10 UF 50V RADIAL LEAD  |
| C4                                                  | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C5                                                  | CE50-R6100         | 1          | 55680       | UVX1H100MDA              | 10 UF 50V RADIAL LEAD  |
| C7                                                  | CC50-04470         | 1          | 04222       | SR301E474MAA             | .47 UF CERAMIC Y5V     |
| C8                                                  | CC50-04470         | 1          | 04222       | SR301E474MAA             | .47 UF CERAMIC Y5V     |
| C10                                                 | CC50-04470         | 1          | 04222       | SR301E474MAA             | .47 UF CERAMIC Y5V     |
| C11                                                 | CC50-04470         | 1          | 04222       | SR301E474MAA             | .47 UF CERAMIC Y5V     |
| C13                                                 | CC50-04470         | 1          | 04222       | SR301E474MAA             | .47 UF CERAMIC Y5V     |
| C14                                                 | CC50-04470         | 1          | 04222       | SR301E474MAA             | .47 UF CERAMIC Y5V     |
| C15                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C16                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C17                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C18                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C19                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C20                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C21                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C22                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C23                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C24                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C25                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C26                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C27                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C28                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C29                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C30                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C31                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C32                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C33                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C34                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C35                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |
| C36                                                 | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R     |

**21693-A00 PCB ASSY PREWARE, CPU, Rev. H (A1) (Continued)**

| Item | Part Number | Qty | Cage  | Mfr's Part Number | Description                   |
|------|-------------|-----|-------|-------------------|-------------------------------|
| C37  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C38  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C39  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C40  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C42  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C43  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C44  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C45  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C46  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C47  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C48  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C49  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C50  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C51  | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R            |
| C52  | CC50-04470  | 1   | 04222 | SR301E474MAA      | .47 UF CERAMIC Y5V            |
| CR2  | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR3  | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR4  | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR5  | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR6  | DBMC-00010  | 1   | 58900 | DBMC-00010        | PE10 5A 100V BRIDGE RECTIFIER |
| CR7  | DBMC-00001  | 1   | 0RF16 | CSB1              | 1 A DIP BRIDGE                |
| DS1  | ILYR-00125  | 1   | 28480 | HLMP-1440         | YELLOW LED                    |
| DS2  | ILYR-00125  | 1   | 28480 | HLMP-1440         | YELLOW LED                    |
| J2   | JIA2-40370  | 1   | 09769 | 2-103783-0        | 40 PIN STRIPLINE HEADER       |
| J3   | JIA2-24370  | 1   | 09769 | 1-103783-2        | 24 PIN STRIPLINE HEADER       |
| J6   | JIA1-16295  | 1   | 09769 | 1-640456-6        | 16 PIN LOCKING STRIP PLUG     |
| J8   | JIA2-50285  | 1   | 58900 | JIA2-50285        | 50 PIN STRIPLINE PLUG         |
| J9   | JMM0-00604  | 1   | 09769 | 1-380999-0        | 6 PIN MALE CONNECTOR          |
| J10  | JIA1-04230  | 1   | 09769 | 103747-4          | 4PIN STRIPLINE PLUG           |
| J11  | 19477-003   | 1   | 09769 | 640456-4          | CONN HDR POST STR LOCK 4POS   |
| Q1   | QBNS-03904  | 1   | 04713 | 2N3904            | 2N3904 .2A 40V NPN            |
| R1   | RN55-14750  | 1   | 91637 | RN55C4751F        | 4.75 K OHMS 1% MET FILM       |
| R2   | RN55-22000  | 1   | 91637 | RN55C2002F        | 20 K OHMS 1% MET FILM         |
| R3   | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%  | 10 K OHMS 1% MET FILM         |
| R4   | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%  | 10 K OHMS 1% MET FILM         |
| R5   | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%  | 10 K OHMS 1% MET FILM         |
| R6   | RN55-02210  | 1   | 91637 | RN55C2210F        | 221 OHMS 1% MET FILM          |
| R10  | RN55-02210  | 1   | 91637 | RN55C2210F        | 221 OHMS 1% MET FILM          |
| R11  | RN55-04750  | 1   | 91637 | RN55C4750F        | 475 OHMS 1% MET FILM          |
| R12  | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%  | 10 K OHMS 1% MET FILM         |
| R13  | RN55-04750  | 1   | 91637 | RN55C4750F        | 475 OHMS 1% MET FILM          |
| R14  | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%  | 10 K OHMS 1% MET FILM         |
| R18  | RN55-14750  | 1   | 91637 | RN55C4751F        | 4.75 K OHMS 1% MET FILM       |
| R19  | RN55-01000  | 1   | 91637 | RN55C1000F        | 100 OHMS 1% MET FILM          |

## Series 8540C Universal Power Meters

| 21693-A00 PCB ASSY PREWARE, CPU, Rev. H (A1) (Continued) |             |     |       |                     |                             |
|----------------------------------------------------------|-------------|-----|-------|---------------------|-----------------------------|
| Item                                                     | Part Number | Qty | Cage  | Mfr's Part Number   | Description                 |
| R20                                                      | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%    | 10 K OHMS 1% MET FILM       |
| R21                                                      | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%    | 10 K OHMS 1% MET FILM       |
| R22                                                      | RN55-31000  | 1   | 91637 | RN55C1003F          | 100 K OHMS 1% MET FILM      |
| R23                                                      | RN55-31000  | 1   | 91637 | RN55C1003F          | 100 K OHMS 1% MET FILM      |
| R24                                                      | RN55-31000  | 1   | 91637 | RN55C1003F          | 100 K OHMS 1% MET FILM      |
| R25                                                      | RN55-31000  | 1   | 91637 | RN55C1003F          | 100 K OHMS 1% MET FILM      |
| R26                                                      | RN55-00100  | 1   | 91637 | RN55C10R0F          | 10 OHMS 1% MET FILM         |
| R27                                                      | RN55-00100  | 1   | 91637 | RN55C10R0F          | 10 OHMS 1% MET FILM         |
| R28                                                      | RN55-00100  | 1   | 91637 | RN55C10R0F          | 10 OHMS 1% MET FILM         |
| R29                                                      | RN55-11000  | 1   | 91637 | RN55C1001F          | 1 K OHMS 1% MET FILM        |
| RP1                                                      | RM9S-21001  | 1   | 58900 | RM9S-21001          | 10K OHM X 9 SIP NETWORK     |
| RP2                                                      | RM9S-21001  | 1   | 58900 | RM9S-21001          | 10K OHM X 9 SIP NETWORK     |
| RP3                                                      | RM9S-21001  | 1   | 58900 | RM9S-21001          | 10K OHM X 9 SIP NETWORK     |
| RP4                                                      | RM9S-21001  | 1   | 58900 | RM9S-21001          | 10K OHM X 9 SIP NETWORK     |
| RP5                                                      | RM9S-21001  | 1   | 58900 | RM9S-21001          | 10K OHM X 9 SIP NETWORK     |
| RP6                                                      | RM9S-21001  | 1   | 58900 | RM9S-21001          | 10K OHM X 9 SIP NETWORK     |
| TP1                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP2                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP3                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP4                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP5                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP6                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP7                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP8                                                      | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP12                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP13                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP14                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP15                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP16                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP17                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| TP18                                                     | ETT0-00001  | 1   | 63345 | 330.100W/ TIN PLATE | TEST JACK PIN               |
| U1                                                       | UTN0-00742  | 1   | 58900 | UTN0-00742          | 74HC74 DUAL D FLIP FLOP     |
| U2                                                       | UTN0-03932  | 1   | 01295 | SN74HC393N          | 74HC393 BINARY DIVIDE       |
| U3                                                       | UGN0-71055  | 1   | 4T165 | UPD71055C           | uPD71055 PARALLEL INTERFACE |
| U6                                                       | UIN0-75160  | 1   | 01295 | SN75160BN           | SN75160N IEEE BUFFER        |
| U7                                                       | UIN0-75162  | 1   | 01295 | SN75162BN           | SN75162N IEEE BUFFER        |
| U8                                                       | UGN0-09914  | 1   | 01295 | TMS9914NL (ANL)     | TMS9914NL IEEE 488          |
| U9                                                       | UGN0-68000  | 1   | 04713 | MC68HC000P-12       | HD68HC000P-8 COMPUTER       |
| U10                                                      | UIN0-01210  | 1   | 0B0A9 | DS1210              | DS1210 NONVOL CONTROLLER    |
| U11                                                      | UTN0-00322  | 1   | 01295 | 74HC32N             | 74HC32 QUAD 2 INPUT OR      |
| U12                                                      | UTN0-02453  | 1   | 01295 | SN74HCT245N         | 74HCT245 OCTAL BUSXCVR      |
| U13                                                      | UTN0-02453  | 1   | 01295 | SN74HCT245N         | 74HCT245 OCTAL BUSXCVR      |
| U14                                                      | UTN0-02443  | 1   | 01295 | SN74HCT244N         | SN74HCT244N BUFFER          |
| U15                                                      | UTN0-01382  | 1   | 01295 | 74HC138N            | 74HC138 DECODER/DEMULIP     |

**21693-A00 PCB ASSY PREWARE, CPU, Rev. H (A1) (Continued)**

| Item | Part Number | Qty | Cage  | Mfr's Part Number | Description                  |
|------|-------------|-----|-------|-------------------|------------------------------|
| U16  | UTN0-00322  | 1   | 01295 | 74HC32N           | 74HC32 QUAD 2 INPUT OR       |
| U17  | UTN0-00042  | 1   | 01295 | SN74HC04N         | 74HC04 HEX INVERTER SMT      |
| U18  | UTN0-01382  | 1   | 01295 | 74HC138N          | 74HC138 DECODER/DEMULIP      |
| U19  | UTN0-01382  | 1   | 01295 | 74HC138N          | 74HC138 DECODER/DEMULIP      |
| U20  | UTN0-00052  | 1   | 01295 | SN74HC05N         | 74HC05, HEX INVERTER         |
| U21  | UTN0-01482  | 1   | 01295 | SN74HC148N        | 74HC148 PRIORITY ENCODER     |
| U22  | UIN0-01231  | 1   | 0B0A9 | DS1231-50         | DS1231-50 POWER MONITOR      |
| U23  | UGN0-08279  | 1   | 34335 | AM8279DC          | 8279 KEY/DISPLAY INTERFACE   |
| U24  | UTN0-00143  | 1   | 58900 | UTN0-00143        | 74HCT14N HEX SCHMITT TRIGGER |
| U25  | UGN0-71055  | 1   | 4T165 | UPD71055C         | uPD71055 PARALLEL INTERFACE  |
| U26  | UGN0-71054  | 1   | 4T165 | UPD71054C         | uPD71054C PROG COUNTER       |
| W3   | JIA2-16370  | 1   | 09769 | 1-103783-8        | 16 PIN STRIPLINE HEADER      |
| W4   | JIA2-30370  | 1   | 09769 | 1-103783-5        | 30 PIN STRIPLINE HEADER      |
| XU4  | JSP0-10020  | 1   | 09769 | 2-641612-1        | 20 PIN DIP SOCKET            |
| XU27 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU28 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU29 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU30 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU31 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU32 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU33 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU34 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU35 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| XU36 | JSP0-10032  | 1   | 09769 | 390263-2          | 32 PIN DIP SOCKET            |
| Y1   | YX00-00024  | 1   | 61429 | F1100H 24.0000MHz | 24 MHZ OSCILLATOR            |

**30164 8541C ANALOG PC ASSY, Rev. S (A2)**

| Item | Part Number | Qty | Cage  | Mfr's Part Number | Description                   |
|------|-------------|-----|-------|-------------------|-------------------------------|
| 1    | HIBR-00440  | 6   | 53387 | SJ5303-CLEAR      | MOLDED BUMPER                 |
| 2    | 20192       | REF | 58900 | 20192             | SHELL,OBLONG                  |
| 3    | 20259       | REF | 58900 | 20259             | COVER,CALIBRATOR HOUSING      |
| 4    | 20260       | 1   | ----- | 20260             | HOUSING,CALIBRATOR            |
| 5    | 20800       | REF | 58900 | 20800             | LABEL,US PATENT 4,794,325     |
| 7    | HIGP-00312  | 4   | 58900 | HIGP-00312        | PLASTIC LATCH GROMMET         |
| 8    | HIPP-00312  | 4   | 58900 | HIPP-00312        | PLASTIC LATCH PLUNGER         |
| 9    | HBPP-44004  | 12  | 26233 | NS137CR440R4      | 4-40 X 1/4 PAN                |
| 10   | HWSS-40300  | 12  | 58900 | HWSS-40300        | #4 X 3/16 SPLIT LOCK          |
| 11   | GFU0-01204  | 1   | 53387 | 4504-3/4"         | 3/4 X 1/4 FOAM TAPE           |
| 12   | 30163       | 1   | 58900 | 30163             | 8540C ANALOG PCB              |
| 13   | 30165       | REF | 58900 | 30165             | 8540C ANALOG PCB SCH.         |
| 14   | PH00-00001  | 1   | 4J674 | 44-CBS-1.5X5.5X.4 | SHIELD COVER                  |
| 15   | 30166       | REF | 58900 | 30166             | 8540C ANALOG P.C.B. TEST PLAN |
| 16   | WTT0-22001  | 0   | 16428 | #22AWG-TFE/TW     | #22 CLEAR TFE SLVNG           |

## Series 8540C Universal Power Meters

| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                           |
|-----------------------------------------------------|-------------|-----|-------|-------------------|---------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description               |
| A1                                                  | 20112       | REF | 58900 | 20112             | CALIB THERM OVEN PCB ASSY |
| C1                                                  | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C2                                                  | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C3                                                  | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C4                                                  | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT    |
| C5                                                  | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C6                                                  | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C7                                                  | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C8                                                  | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT    |
| C9                                                  | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT    |
| C10                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C11                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C14                                                 | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R        |
| C15                                                 | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R        |
| C16                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C17                                                 | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R        |
| C18                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C19                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C20                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C21                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C22                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C23                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC   |
| C24                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC   |
| C25                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C26                                                 | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R        |
| C27                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C28                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C31                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C32                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC  |
| C33                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C34                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C35                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C36                                                 | CC98-00330  | 1   | ----- | CCD-330           | 33 PF 1KV CERAMIC NPO     |
| C37                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C38                                                 | CC50-04220  | 1   | 31433 | C322C224M5U5CA    | .22 UF CERAMIC Z5U        |
| C39                                                 | CF00-04470  | 1   | 58900 | CF00-04470        | .47UF 100V POLYPROPYLENE  |
| C40                                                 | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R        |
| C41                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C42                                                 | CE50-R5470  | 1   | 74840 | 475PGM050M        | 4.7UF 50V RADIAL          |
| C43                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C44                                                 | CE50-R5470  | 1   | 74840 | 475PGM050M        | 4.7UF 50V RADIAL          |
| C45                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R         |
| C46                                                 | CE50-R5470  | 1   | 74840 | 475PGM050M        | 4.7UF 50V RADIAL          |
| C47                                                 | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R        |

| <b>30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                          |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|--------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>       |
| C48                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C49                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C50                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C51                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C52                                                        | CD99-01150         | 1          | -----       | DM15-151F                | 150 PF DIP MICA          |
| C53                                                        | CD99-01240         | 1          | -----       | DM15-241F                | 240 PF DIP MICA          |
| C54                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C55                                                        | CD99-00620         | 1          | -----       | CMO5FD620F03             | 62 PF DIP MICA           |
| C56                                                        | CD99-01120         | 1          | -----       | CMO6FD121J03             | 120 PF DIP MICA          |
| C57                                                        | CD99-00620         | 1          | -----       | CMO5FD620F03             | 62 PF DIP MICA           |
| C58                                                        | CD00-02100         | 1          | -----       | CM05E102                 | 1000 PF DIP MICA         |
| C59                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C60                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C61                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C62                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C63                                                        | CD00-02100         | 1          | -----       | CM05E102                 | 1000 PF DIP MICA         |
| C64                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C65                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C66                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C67                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C68                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C69                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C70                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C71                                                        | CC50-02470         | 1          | 31433       | C315C472K1R5CA           | 4700 PF CERAMIC X7R      |
| C72                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C73                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C74                                                        | CC50-02470         | 1          | 31433       | C315C472K1R5CA           | 4700 PF CERAMIC X7R      |
| C75                                                        | CC50-04220         | 1          | 31433       | C322C224M5U5CA           | .22 UF CERAMIC Z5U       |
| C77                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C78                                                        | CC50-02100         | 1          | 04222       | SR155C122MAT             | .001 UF CERAMIC Y5P      |
| C79                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C80                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C81                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C82                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C83                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C84                                                        | CC50-03470         | 1          | 31433       | C320C473K5R5CA           | .047 UF CERAMIC X7R      |
| C85                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C86                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C87                                                        | CC50-02100         | 1          | 04222       | SR155C122MAT             | .001 UF CERAMIC Y5P      |
| C88                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C89                                                        | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C90                                                        | CK50-00100         | 1          | 54583       | CC0805HNPO15150J         | 10 PF NPO CHIP           |
| C91                                                        | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C92                                                        | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |

## Series 8540C Universal Power Meters

| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                          |
|-----------------------------------------------------|-------------|-----|-------|-------------------|--------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description              |
| C93                                                 | CK50-00100  | 1   | 54583 | CC0805HNPO15150J  | 10 PF NPO CHIP           |
| C94                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C98                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C100                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C101                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C102                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C104                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C105                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C106                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C107                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C108                                                | CK51-02100  | 1   | 04222 | 08055C102KATMA    | 1000PF X7R CHIP CERAMIC  |
| C109                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C110                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C111                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C113                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C124                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C125                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C126                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C127                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C128                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C129                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C130                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C131                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C132                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C133                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C134                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C135                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C136                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C137                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C138                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C139                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C140                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C141                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C142                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C143                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C144                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C145                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C146                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C147                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C148                                                | CK50-03100  | 1   | 31433 | C0805C103K5RAC    | .01 UF X7R CHIP CERAMIC  |
| C149                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C150                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C151                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C152                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |

| <b>30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                          |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|--------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>       |
| C153                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT   |
| C154                                                       | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C155                                                       | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C156                                                       | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C159                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C160                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C161                                                       | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C162                                                       | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C163                                                       | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C164                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C165                                                       | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C166                                                       | CE50-R6100         | 1          | 55680       | UVX1H100MDA              | 10 UF 50V RADIAL LEAD    |
| C167                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C168                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C171                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT   |
| C172                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C175                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT   |
| C176                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT   |
| C177                                                       | CC50-04220         | 1          | 31433       | C322C224M5U5CA           | .22 UF CERAMIC Z5U       |
| C178                                                       | CK51-02100         | 1          | 04222       | 08055C102KATMA           | 1000PF X7R CHIP CERAMIC  |
| C180                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C181                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C191                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C202                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT   |
| C203                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C204                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C205                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C206                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C207                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C209                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C210                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C211                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT   |
| C228                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C229                                                       | CK50-01100         | 1          | 58900       | CK50-01100               | 100 PF CERAMIC NPO       |
| C230                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C231                                                       | CK50-01470         | 1          | 58900       | CK50-01470               | 470 PF COG CHIP CERAMIC  |
| C232                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C233                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C234                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C235                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C236                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C237                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C238                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |
| C239                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC  |

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| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                               |
|-----------------------------------------------------|-------------|-----|-------|-------------------|-------------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description                   |
| C240                                                | CK50-03100  | 1   | 31433 | C0805C103K5RAC    | .01 UF X7R CHIP CERAMIC       |
| C241                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC      |
| C243                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC      |
| C246                                                | CK50-01470  | 1   | 58900 | CK50-01470        | 470 PF COG CHIP CERAMIC       |
| CR2                                                 | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR3                                                 | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR4                                                 | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR5                                                 | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR6                                                 | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR7                                                 | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR8                                                 | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR9                                                 | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR10                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR11                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR12                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR13                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR14                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,,3PF,100ns |
| CR15                                                | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR20                                                | DZAB-00751  | 1   | 04713 | 1N751A            | 1N751A 5.1V ZENER             |
| J1                                                  | JIR2-14318  | 1   | 09769 | 102975-7          | 14 PIN STRIPLINE PLUG         |
| J3                                                  | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT         |
| J4                                                  | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT         |
| J5                                                  | JRBM-00100  | 1   | 58900 | JRBM-00100        | SMB M PC MOUNT                |
| L11                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| L12                                                 | 19203       | 1   | OB3G8 | 19203             | .1 UH RF COIL                 |
| L13                                                 | 15293       | 1   | 58900 | 15293             | .17 UH INDUCTOR               |
| L14                                                 | 15293       | 1   | 58900 | 15293             | .17 UH INDUCTOR               |
| L15                                                 | 15293       | 1   | 58900 | 15293             | .17 UH INDUCTOR               |
| L16                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| L17                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| L18                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| P1                                                  | JIA2-50318  | 1   | 09769 | 2-87227-5         | 50 PIN STRIPLINE PLUG         |
| Q1                                                  | QBPP-00170  | 1   | 04713 | MJE 170           | MJE 170 3A 40V 12.5W PNP      |
| Q2                                                  | QBNS-03904  | 1   | 04713 | 2N3904            | 2N3904 .2A 40V NPN            |
| Q3                                                  | QBNS-03904  | 1   | 04713 | 2N3904            | 2N3904 .2A 40V NPN            |
| Q4                                                  | QBNP-00231  | 1   | 58900 | QBNP-00231        | BFQ231 1W 1GHZ NPN            |
| Q5                                                  | QBPS-03644  | 1   | 53387 | 2N3645            | 2N3644 .3 A 45 V PNP          |
| Q6                                                  | QBNS-03569  | 1   | 4U751 | 2N3569            | PN3569 .5A 40V NPN            |
| Q7                                                  | QBNS-03569  | 1   | 4U751 | 2N3569            | PN3569 .5A 40V NPN            |
| Q8                                                  | QBNC-03904  | 1   | 04713 | MMBT3904L         | 2N3904 .2A 40V NPN SMT        |
| Q9                                                  | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q10                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q11                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q12                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |

| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                         |
|-----------------------------------------------------|-------------|-----|-------|-------------------|-------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description             |
| Q13                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT   |
| Q14                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT   |
| Q15                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT   |
| Q16                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT   |
| R2                                                  | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R3                                                  | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT     |
| R4                                                  | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R5                                                  | RK45-03160  | 1   | ----- | RK73H2AT3160F     | 316 OHM 1% FILM SMT     |
| R6                                                  | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R7                                                  | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R8                                                  | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R9                                                  | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R10                                                 | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R11                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R12                                                 | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT     |
| R13                                                 | RK45-03160  | 1   | ----- | RK73H2AT3160F     | 316 OHM 1% FILM SMT     |
| R14                                                 | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R15                                                 | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R16                                                 | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT     |
| R17                                                 | RK45-31470  | 1   | ----- | RK73H2AT1473F     | 147K OHM 1% FILM SMT    |
| R18                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R19                                                 | RK45-02870  | 1   | ----- | RK73H2AT2870F     | 287 OHM 1% FILM SMT     |
| R20                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT    |
| R21                                                 | RK45-21470  | 1   | 58900 | RK45-21470        | 14.7K OHM 1% FILM SMT   |
| R22                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R23                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R24                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R25                                                 | RK45-00681  | 1   | 59124 | RK73H2AT68R1F     | 68.1 OHM 1% FILM SMT    |
| R26                                                 | RK45-00681  | 1   | 59124 | RK73H2AT68R1F     | 68.1 OHM 1% FILM SMT    |
| R27                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R28                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R29                                                 | RK45-15100  | 1   | ----- | RK73H2AT5111F     | 5.1K OHM 1% FILM SMT    |
| R30                                                 | RN55-11000  | 1   | 91637 | RN55C1001F        | 1 K OHMS 1% MET FILM    |
| R31                                                 | RN55-03320  | 1   | 91637 | RN55C3320F        | 332 OHMS 1% MET FILM    |
| R32                                                 | RN55-03320  | 1   | 91637 | RN55C3320F        | 332 OHMS 1% MET FILM    |
| R33                                                 | RN55-11820  | 1   | 91637 | RN55C1821F        | 1.82 K OHMS 1% MET FILM |
| R34                                                 | RK45-31000  | 1   | ----- | RK73H2AT1003F     | 100K OHM 1% FILM SMT    |
| R35                                                 | RN55-14750  | 1   | 91637 | RN55C4751F        | 4.75 K OHMS 1% MET FILM |
| R36                                                 | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT     |
| R37                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT    |
| R38                                                 | RK45-14420  | 1   | 58900 | RK45-14420        | 4.42K OHM 1% FILM SMT   |
| R39                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT   |
| R40                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT    |
| R41                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT    |

## Series 8540C Universal Power Meters

| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                      |                          |
|-----------------------------------------------------|-------------|-----|-------|----------------------|--------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number    | Description              |
| R42                                                 | RK45-15100  | 1   | ----- | RK73H2AT5111F        | 5.1K OHM 1% FILM SMT     |
| R43                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R44                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R46                                                 | RK45-22670  | 1   | 58900 | RK45-22670           | 26.7K OHM 1% FILM SMT    |
| R47                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R48                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F        | 499 OHM 1% FILM SMT      |
| R50                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R51                                                 | RK45-23010  | 1   | 91637 | CRCW08053012FT       | 30.1K OHM 1% FILM SMT    |
| R52                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F        | 10.0K OHM 1% FILM SMT    |
| R53                                                 | RK45-23010  | 1   | 91637 | CRCW08053012FT       | 30.1K OHM 1% FILM SMT    |
| R59                                                 | RK45-23010  | 1   | 91637 | CRCW08053012FT       | 30.1K OHM 1% FILM SMT    |
| R62                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F        | 10.0K OHM 1% FILM SMT    |
| R63                                                 | RK45-00412  | 1   | 58900 | RK45-00412           | 41.2 OHM 1% FILM SMT     |
| R64                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R65                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R66                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F        | 499 OHM 1% FILM SMT      |
| R67                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F        | 499 OHM 1% FILM SMT      |
| R68                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R69                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R70                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R73                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R77                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F        | 10.0K OHM 1% FILM SMT    |
| R78                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F        | 10.0K OHM 1% FILM SMT    |
| R96                                                 | RK45-31000  | 1   | ----- | RK73H2AT1003F        | 100K OHM 1% FILM SMT     |
| R97                                                 | RN55-11820  | 1   | 91637 | RN55C1821F           | 1.82 K OHMS 1% MET FILM  |
| R98                                                 | RN55-14750  | 1   | 91637 | RN55C4751F           | 4.75 K OHMS 1% MET FILM  |
| R99                                                 | RN55-00274  | 1   | 91637 | RN55C27R4F           | 27.4 OHMS 1% MET FILM    |
| R100                                                | RN57-25000  | 1   | 58900 | RN57-25000           | 50.0 K OHM .1 % MET FILM |
| R101                                                | RN57-25000  | 1   | 58900 | RN57-25000           | 50.0 K OHM .1 % MET FILM |
| R102                                                | RN57-25000  | 1   | 58900 | RN57-25000           | 50.0 K OHM .1 % MET FILM |
| R103                                                | RN57-25000  | 1   | 58900 | RN57-25000           | 50.0 K OHM .1 % MET FILM |
| R106                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R107                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM    |
| R108                                                | RN55-03920  | 1   | 91637 | RN55C3920F           | 392 OHMS 1% MET FILM     |
| R109                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R110                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001       | 1.00K OHM 1% FILM SMT    |
| R111                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F        | 549 OHM 1% FILM SMT      |
| R112                                                | RK45-21470  | 1   | 58900 | RK45-21470           | 14.7K OHM 1% FILM SMT    |
| R113                                                | RN55-24750  | 1   | 91637 | RN55C4752F           | 47.5 K OHMS 1% MET FILM  |
| R114                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R115                                                | RN55-11130  | 1   | 91637 | RN55D 1.13K OHM 1%   | 1.13 K OHMS 1% MET FILM  |
| R117                                                | RN57-21500  | 1   | 58900 | RN57-21500           | 15.0 K OHM .1 % MET FILM |
| R118                                                | RN57-11290  | 1   | 53387 | LM3C1291B            | 1.29K OHM .1% MET FILM   |
| R119                                                | RN57-21250  | 1   | 60393 | GP 1/4-TC50-12.5-.1% | 12.5 K OHM .1% MET FILM  |

| <b>30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                           |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|---------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>        |
| R120                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R121                                                       | RN55-41000         | 1          | 91637       | RN55C1004F               | 1 M OHMS 1% MET FILM      |
| R122                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R123                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R124                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R125                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R126                                                       | RN57-21333         | 1          | 58900       | RN57-21333               | 13.33 K OHM .1 % MET FILM |
| R127                                                       | 12449-129          | 1          | 58900       | 12449-129                | 40.0 K OHM .1 % MET FILM  |
| R128                                                       | RN55-12210         | 1          | 91637       | RN55C2211F               | 2.21 K OHMS 1% MET FILM   |
| R129                                                       | RK45-31470         | 1          | -----       | RK73H2AT1473F            | 147K OHM 1% FILM SMT      |
| R130                                                       | RK45-22670         | 1          | 58900       | RK45-22670               | 26.7K OHM 1% FILM SMT     |
| R131                                                       | RN55-12000         | 1          | 91637       | RN55C2001F               | 2.00 K OHMS 1% MET FILM   |
| R132                                                       | RN55-12000         | 1          | 91637       | RN55C2001F               | 2.00 K OHMS 1% MET FILM   |
| R133                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R134                                                       | RN55-13010         | 1          | 91637       | RN55C3011F               | 3.01 K OHMS 1% MET FILM   |
| R135                                                       | RN55-22210         | 1          | 91637       | RN55C2212F               | 22.1 K OHMS 1% MET FILM   |
| R136                                                       | RN55-23160         | 1          | 91637       | RN55C3162F               | 31.6 K OHMS 1% MET FILM   |
| R137                                                       | RN55-21330         | 1          | 91637       | RN55C1332F               | 13.3 K OHMS 1% MET FILM   |
| R138                                                       | RK45-13320         | 1          | 91637       | CRCW08053321FT           | 3.32K OHM 1% FILM SMT     |
| R139                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R140                                                       | RN55-14990         | 1          | 91637       | RN55C4991F               | 4.99 K OHMS 1% MET FILM   |
| R141                                                       | RN57-18000         | 1          | 58900       | RN57-18000               | 8.00 K OHM .1 % MET FILM  |
| R142                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R143                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R144                                                       | RN55-00274         | 1          | 91637       | RN55C27R4F               | 27.4 OHMS 1% MET FILM     |
| R145                                                       | RK45-02870         | 1          | -----       | RK73H2AT2870F            | 287 OHM 1% FILM SMT       |
| R146                                                       | RN55-12490         | 1          | 91637       | RN55C2491F               | 2.49 K OHMS 1% MET FILM   |
| R147                                                       | RN55-12490         | 1          | 91637       | RN55C2491F               | 2.49 K OHMS 1% MET FILM   |
| R148                                                       | RN55-21210         | 1          | 91637       | RN55C1212F               | 12.1 K OHMS 1% MET FILM   |
| R149                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R150                                                       | RN55-03740         | 1          | 91637       | RN55C3740F               | 374 OHMS 1% MET FILM      |
| R151                                                       | RN55-03740         | 1          | 91637       | RN55C3740F               | 374 OHMS 1% MET FILM      |
| R152                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R153                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R154                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R155                                                       | RN55-04990         | 1          | 91637       | RN55C4990F               | 499 OHMS 1% MET FILM      |
| R156                                                       | RN55-04990         | 1          | 91637       | RN55C4990F               | 499 OHMS 1% MET FILM      |
| R157                                                       | RN55-00619         | 1          | 91637       | CCF55-2-61.9^1%T2T/R     | 61.9 OHMS 1% MET FILM     |
| R158                                                       | RN55-00953         | 1          | 91637       | RNC55H95R3FP             | 95.3 OHM 1% MET FILM      |
| R159                                                       | RN55-00953         | 1          | 91637       | RNC55H95R3FP             | 95.3 OHM 1% MET FILM      |
| R160                                                       | RN55-11500         | 1          | 91637       | RN55C1501F               | 1.5 K OHMS 1% MET FILM    |
| R161                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R162                                                       | RN55-00287         | 1          | 91637       | CCF55-2-28.7^1%T2T/R     | 28.7 OHMS 1% MET FILM     |
| R163                                                       | RN55-00110         | 1          | 91637       | RN55C11R0F               | 11.0 OHMS 1% MET FILM     |

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| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                      |                         |
|-----------------------------------------------------|-------------|-----|-------|----------------------|-------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number    | Description             |
| R164                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM    |
| R165                                                | RN55-04990  | 1   | 91637 | RN55C4990F           | 499 OHMS 1% MET FILM    |
| R166                                                | RN55-00619  | 1   | 91637 | CCF55-2-61.9^1%T2T/R | 61.9 OHMS 1% MET FILM   |
| R167                                                | RN55-02430  | 1   | 91637 | RN55C2430F           | 243 OHMS 1% MET FILM    |
| R168                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM    |
| R169                                                | RN55-04990  | 1   | 91637 | RN55C4990F           | 499 OHMS 1% MET FILM    |
| R170                                                | RN55-00619  | 1   | 91637 | CCF55-2-61.9^1%T2T/R | 61.9 OHMS 1% MET FILM   |
| R171                                                | RN55-23010  | 1   | 91637 | RN55C3012F           | 30.1 K OHMS 1% MET FILM |
| R172                                                | RN55-31100  | 1   | 91637 | RN55C1103F           | 110 K OHMS 1% MET FILM  |
| R173                                                | RN55-12740  | 1   | 91637 | RN55C2741F           | 2.74K OHMS 1% MET FILM  |
| R174                                                | RG03-00150  | 1   | 91637 | FP215R0 5%           | 15 OHM 10% METAL GLAZE  |
| R175                                                | RN55-11500  | 1   | 91637 | RN55C1501F           | 1.5 K OHMS 1% MET FILM  |
| R176                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM   |
| R177                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM   |
| R178                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM   |
| R179                                                | RN55-22210  | 1   | 91637 | RN55C2212F           | 22.1 K OHMS 1% MET FILM |
| R180                                                | RN55-21500  | 1   | 91637 | RN55C1502F           | 15 K OHMS 1% MET FILM   |
| R181                                                | RN55-14750  | 1   | 91637 | RN55C4751F           | 4.75 K OHMS 1% MET FILM |
| R182                                                | RN55-14750  | 1   | 91637 | RN55C4751F           | 4.75 K OHMS 1% MET FILM |
| R183                                                | RN55-02490  | 1   | 91637 | RN55C2490F           | 249 OHMS 1% MET FILM    |
| R184                                                | RN55-34750  | 1   | 91637 | RN55C4753F           | 475 K OHMS 1% MET FILM  |
| R185                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM    |
| R186                                                | RN55-12000  | 1   | 91637 | RN55C2001F           | 2.00 K OHMS 1% MET FILM |
| R187                                                | RN55-00100  | 1   | 91637 | RN55C10R0F           | 10 OHMS 1% MET FILM     |
| R188                                                | RK45-11000  | 1   | 65940 | MCR10EZFHFHFX1001    | 1.00K OHM 1% FILM SMT   |
| R189                                                | RK45-11000  | 1   | 65940 | MCR10EZFHFHFX1001    | 1.00K OHM 1% FILM SMT   |
| R190                                                | RK45-00576  | 1   | 59124 | RN73K2A57R6F         | 57.6 OHM 1% FILM SMT    |
| R191                                                | RK45-11000  | 1   | 65940 | MCR10EZFHFHFX1001    | 1.00K OHM 1% FILM SMT   |
| R194                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F        | 10.0K OHM 1% FILM SMT   |
| R195                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F        | 10.0K OHM 1% FILM SMT   |
| R198                                                | RN55-01000  | 1   | 91637 | RN55C1000F           | 100 OHMS 1% MET FILM    |
| R199                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM   |
| R214                                                | RK45-11000  | 1   | 65940 | MCR10EZFHFHFX1001    | 1.00K OHM 1% FILM SMT   |
| R225                                                | RK45-11000  | 1   | 65940 | MCR10EZFHFHFX1001    | 1.00K OHM 1% FILM SMT   |
| R226                                                | RK45-11000  | 1   | 65940 | MCR10EZFHFHFX1001    | 1.00K OHM 1% FILM SMT   |
| R228                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R229                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R232                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R233                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R234                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R235                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R236                                                | RK45-32490  | 1   | 58900 | RK45-32490           | 249K OHM 1% FILM SMT    |
| R240                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |
| R241                                                | RN55-00475  | 1   | 91637 | RN55C47R5F           | 47.5 OHMS 1% MET FILM   |

| <b>30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                         |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|-------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>      |
| R242                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R243                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R245                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R246                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R247                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R248                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R249                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R250                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R251                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R252                                                       | RN55-00475         | 1          | 91637       | RN55C47R5F               | 47.5 OHMS 1% MET FILM   |
| R253                                                       | RK45-23010         | 1          | 91637       | CRCW08053012FT           | 30.1K OHM 1% FILM SMT   |
| R254                                                       | RK45-23010         | 1          | 91637       | CRCW08053012FT           | 30.1K OHM 1% FILM SMT   |
| R255                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R256                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R257                                                       | RK45-12400         | 1          | -----       | RK73H2AT2431F            | 2.4K OHM 1% FILM SMT    |
| R258                                                       | RK45-04990         | 1          | -----       | RK73H2AT4990F            | 499 OHM 1% FILM SMT     |
| R261                                                       | RK45-09530         | 1          | -----       | RK73H2AT9530F            | 953 OHM 1% FILM SMT     |
| R263                                                       | RK45-05490         | 1          | -----       | RK73H2AT5490F            | 549 OHM 1% FILM SMT     |
| R264                                                       | RK45-05490         | 1          | -----       | RK73H2AT5490F            | 549 OHM 1% FILM SMT     |
| R269                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHFX1001          | 1.00K OHM 1% FILM SMT   |
| R270                                                       | RK45-00196         | 1          | 59124       | RN73K2A19R6F             | 19.6 OHM 1% FILM SMT    |
| R272                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHFX1001          | 1.00K OHM 1% FILM SMT   |
| R273                                                       | RW03-00390         | 1          | 91637       | RS-2B-39-1               | 39 OHM 3W WIREWOUND     |
| R274                                                       | RW03-00390         | 1          | 91637       | RS-2B-39-1               | 39 OHM 3W WIREWOUND     |
| RP1                                                        | RM9S-21001         | 1          | 58900       | RM9S-21001               | 10K OHM X 9 SIP NETWORK |
| RP2                                                        | RM9S-21001         | 1          | 58900       | RM9S-21001               | 10K OHM X 9 SIP NETWORK |
| RP3                                                        | RM9S-21001         | 1          | 58900       | RM9S-21001               | 10K OHM X 9 SIP NETWORK |
| RT2                                                        | RTC2-21000         | 1          | 56866       | QTMCM-14                 | 10 K OHM THERMISTOR     |
| RT3                                                        | FSS0-00050         | 1          | 06090       | RXE050                   | .5A RES CIRCUIT BREAKER |
| RT4                                                        | FSS0-00050         | 1          | 06090       | RXE050                   | .5A RES CIRCUIT BREAKER |
| TP1                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP2                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP3                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP4                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP5                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP6                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP7                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP8                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP10                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP11                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP12                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP13                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP14                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP15                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |

## Series 8540C Universal Power Meters

| 30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                             |
|-----------------------------------------------------|-------------|-----|-------|-------------------|-----------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description                 |
| TP16                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP23                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP24                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP27                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP28                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP31                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP32                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP35                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| TP37                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT            |
| U1                                                  | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP   |
| U2                                                  | ULN0-00411  | 1   | 17856 | DG411DJ           | DG411DJ QUAD SPST SWITCH    |
| U3                                                  | UFN0-03240  | 1   | 58900 | UFN0-03240        | CA3240E DUAL OP AMP         |
| U4                                                  | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP   |
| U5                                                  | ULN0-00393  | 1   | 01295 | LM393P            | LM393N VOLT COMPARATOR      |
| U6                                                  | UVG0-00070  | 1   | 64155 | LM199H            | LM399H 7V PRECISION ZENER   |
| U7                                                  | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP   |
| U8                                                  | ULN0-00411  | 1   | 17856 | DG411DJ           | DG411DJ QUAD SPST SWITCH    |
| U9                                                  | UTN0-00322  | 1   | 01295 | 74HC32N           | 74HC32 QUAD 2 INPUT OR      |
| U10                                                 | UTN0-00082  | 1   | 01295 | SN74HC08N         | 74HC08N QUAD AND            |
| U11                                                 | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP   |
| U12                                                 | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP   |
| U13                                                 | UIN0-07534  | 1   | 24355 | AD7534JN          | AD7534JN 14 BIT DAC         |
| U14                                                 | UMN0-02444  | 1   | 60395 | X2444P            | X2444P 256 BIT NV RAM       |
| U15                                                 | UTN0-00042  | 1   | 01295 | SN74HC04N         | 74HC04 HEX INVERTER SMT     |
| U16                                                 | UFN1-00324  | 1   | 01295 | LM324N            | LM324AN QUAD OP AMP         |
| U17                                                 | UID0-07245  | 1   | 24355 | AD7245AAR         | AD7245AAR 12 BIT DAC SMT    |
| U18                                                 | UGN0-71055  | 1   | 4T165 | UPD71055C         | uPD71055 PARALLEL INTERFACE |
| U19                                                 | UFN1-00324  | 1   | 01295 | LM324N            | LM324AN QUAD OP AMP         |
| U21                                                 | UGN0-71055  | 1   | 4T165 | UPD71055C         | uPD71055 PARALLEL INTERFACE |
| U22                                                 | UID0-07891  | 1   | 24355 | AD7891AP-2        | AD7891AP-2 MUX/ADC SMT      |
| U23                                                 | URD1-07805  | 1   | 04713 | MC78L05ACD        | MC78L05ACD .1A 5V REG       |
| U24                                                 | UFD0-01007  | 1   | 64155 | LT1007CS8         | LT1007CS8 OP AMP            |
| U25                                                 | UFD0-01356  | 1   | 64155 | LT1356CS          | LT1356CS QUAD OPAMP SMT     |
| U26                                                 | UFD0-00436  | 1   | 62839 | CLC436AJE         | CLC436AJE OP AMP SMT        |
| U27                                                 | UFD0-01007  | 1   | 64155 | LT1007CS8         | LT1007CS8 OP AMP            |
| U28                                                 | ULD0-00613  | 1   | 17856 | DG613DY           | DG613DY 4PST SWITCH SMT     |
| U29                                                 | UFD0-00426  | 1   | 62839 | CLC426AJE         | CLC426AJE OP AMP,SMT        |
| U31                                                 | ULD0-00409  | 1   | 17856 | DG409DY           | DG409DY 2X 4IN SWITCH SMT   |
| U33                                                 | URD1-07812  | 1   | 04713 | MC78M12CDT        | MC78M12CDT .5A 12V REG      |
| U34                                                 | URD0-07912  | 1   | 01295 | MC79L12ACD        | MC79L12ACD .1A 12V SMT      |
| U35                                                 | URD0-07812  | 1   | 04713 | MC78L12ACD        | MC78L12ACD .1A 12V SMT      |
| U36                                                 | ULD0-00642  | 1   | 17856 | DG642DY           | DG642DY SPDT SWITCH SMT     |
| U37                                                 | UID0-07245  | 1   | 24355 | AD7245AAR         | AD7245AAR 12 BIT DAC SMT    |
| U38                                                 | UFN1-00358  | 1   | 01295 | LM358AP           | LM358AN DUAL OP AMP         |

| <b>30164 8541C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                              |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|------------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>           |
| U39                                                        | UFD0-00324         | 1          | 04713       | LM324D                   | LM324D QUAD OP AMP SMT       |
| U40                                                        | URD1-07912         | 1          | 01295       | UA78M45CKTP              | MC79M12CDT .5A -12V REG      |
| U41                                                        | UTD0-00143         | 1          | 04713       | MC74HCT14AD              | 74HCT14D HEX SCHMITT INV SMT |
| U44                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT      |
| U45                                                        | UFD0-00111         | 1          | 62839       | CLC111AJE                | CLC111AJE BUFFER SMT         |
| U46                                                        | UFD0-00111         | 1          | 62839       | CLC111AJE                | CLC111AJE BUFFER SMT         |
| U47                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT      |
| U48                                                        | UFD0-00426         | 1          | 62839       | CLC426AJE                | CLC426AJE OP AMP,SMT         |
| U52                                                        | UFD0-00428         | 1          | 62839       | CLC428JE                 | CLC428AJE OP AMP SMT         |
| U54                                                        | UFD0-01356         | 1          | 64155       | LT1356CS                 | LT1356CS QUAD OPAMP SMT      |
| U56                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT      |
| U57                                                        | URD0-07905         | 1          | 04713       | MC79M05CDT               | MC79M05CDT .5A -5V SMT       |
| U58                                                        | URD0-07805         | 1          | 04713       | MC78M05CDT               | MC78M05CDT.5A 5V REG SM      |
| U59                                                        | UFD0-00428         | 1          | 62839       | CLC428JE                 | CLC428AJE OP AMP SMT         |
| U62                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT      |
| U64                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT      |
| U90                                                        | ULD0-00642         | 1          | 17856       | DG642DY                  | DG642DY SPDT SWITCH SMT      |
| U91                                                        | UID0-01410         | 1          | 64155       | LTC1410CS                | LTC1410CS 12 BIT A/D SMT     |
| U104                                                       | 30619              | 1          | 58900       | 30619                    | PROG GAL 854XC A2 U104       |
| U105                                                       | 30621              | 1          | 58900       | 30621                    | PROG GAL 854XC A2 U105       |
| U106                                                       | 30623              | 1          | 58900       | 30623                    | PROG GAL 854XC A2 U106       |
| U107                                                       | UTD0-00742         | 1          | 01295       | SN74HC74D                | 74HC74D DUAL D FFLOP SMT     |
| U108                                                       | UTD0-00742         | 1          | 01295       | SN74HC74D                | 74HC74D DUAL D FFLOP SMT     |
| U109                                                       | UTD0-00742         | 1          | 01295       | SN74HC74D                | 74HC74D DUAL D FFLOP SMT     |
| U110                                                       | UTD0-40402         | 1          | 01295       | 74HC4040D                | 74HC4040D 12 BIT CT SMT      |
| U111                                                       | 30625              | 1          | 58900       | 30625                    | PROG EPROM 854XC A2 U111     |
| U112                                                       | UGD0-09501         | 1          | 24355       | AD9501JP                 | AD9501JP DELAY GEN SMT       |
| U113                                                       | UTD0-00143         | 1          | 04713       | MC74HCT14AD              | 74HCT14D HEX SCHMITT INV SMT |
| W1                                                         | JIA1-03230         | 1          | 58900       | JIA1-03230               | 3 PIN STRIPLINE PLUG         |
| XW1                                                        | 17240-001          | 1          | 27264       | 15-38-1024               | JUMPER,INSULATED,2 POS       |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) |             |     |       |                   |                            |
|-----------------------------------------|-------------|-----|-------|-------------------|----------------------------|
| Item                                    | Part Number | Qty | Cage  | Mfr's Part Number | Description                |
| 1                                       | HIBR-00440  | 6   | 53387 | SJ5303-CLEAR      | MOLDED BUMPER              |
| 2                                       | 20192       | REF | 58900 | 20192             | SHELL,OBLONG               |
| 3                                       | 20259       | REF | 58900 | 20259             | COVER,CALIBRATOR HOUSING   |
| 4                                       | 20260       | 1   | ----  | 20260             | HOUSING,CALIBRATOR         |
| 5                                       | 20800       | REF | 58900 | 20800             | LABEL,US PATENT 4,794,325  |
| 7                                       | HIGP-00312  | 4   | 58900 | HIGP-00312        | PLASTIC LATCH GROMMET      |
| 8                                       | HIPP-00312  | 4   | 58900 | HIPP-00312        | PLASTIC LATCH PLUNGER      |
| 9                                       | HBPP-44004  | 12  | 26233 | NS137CR440R4      | 4-40 X 1/4 PAN             |
| 10                                      | HWSS-40300  | 12  | 58900 | HWSS-40300        | #4 X 3/16 SPLIT LOCK       |
| 11                                      | GFU0-01204  | 1   | 53387 | 4504-3/4"         | 3/4 X 1/4 FOAM TAPE        |
| 12                                      | 30163       | 1   | 58900 | 30163             | 8540C ANALOG PCB           |
| 13                                      | 30165       | REF | 58900 | 30165             | 8540C ANALOG PCB SCH.      |
| 14                                      | PH00-00001  | 2   | 4J674 | 44-CBS-1.5X5.5X.4 | SHIELD COVER               |
| 15                                      | 30166       | REF | 58900 | 30166             | 8540C ANALOG PCB TEST PLAN |
| 16                                      | WTT0-22001  | 0   | 16428 | #22AWG-TFE/TW     | #22 CLEAR TFE SLVNG        |
| A1                                      | 20112       | REF | 58900 | 20112             | CALIB THERM OVEN PCB ASSY  |
| C1                                      | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C2                                      | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C3                                      | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C4                                      | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT     |
| C5                                      | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C6                                      | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C7                                      | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C8                                      | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT     |
| C9                                      | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT     |
| C10                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C11                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C14                                     | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R         |
| C15                                     | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R         |
| C16                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C17                                     | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R         |
| C18                                     | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R          |
| C19                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C20                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C21                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C22                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C23                                     | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC    |
| C24                                     | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC    |
| C25                                     | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R          |
| C26                                     | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R         |
| C27                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C28                                     | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC   |
| C29                                     | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT     |
| C30                                     | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT     |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                          |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|--------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>       |
| C31                                                        | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C32                                                        | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC |
| C33                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C34                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C35                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C36                                                        | CC98-00330         | 1          | -----       | CCD-330                  | 33 PF 1KV CERAMIC NPO    |
| C37                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C38                                                        | CC50-04220         | 1          | 31433       | C322C224M5U5CA           | .22 UF CERAMIC Z5U       |
| C39                                                        | CF00-04470         | 1          | 58900       | CF00-04470               | .47UF 100V POLYPROPYLENE |
| C40                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C41                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C42                                                        | CE50-R5470         | 1          | 74840       | 475PGM050M               | 4.7UF 50V RADIAL         |
| C43                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C44                                                        | CE50-R5470         | 1          | 74840       | 475PGM050M               | 4.7UF 50V RADIAL         |
| C45                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C46                                                        | CE50-R5470         | 1          | 74840       | 475PGM050M               | 4.7UF 50V RADIAL         |
| C47                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C48                                                        | CC51-04100         | 1          | 04222       | SR205C-104KAA            | .1 UF CERAMIC X7R        |
| C49                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C50                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C51                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C52                                                        | CD99-01150         | 1          | -----       | DM15-151F                | 150 PF DIP MICA          |
| C53                                                        | CD99-01240         | 1          | -----       | DM15-241F                | 240 PF DIP MICA          |
| C54                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C55                                                        | CD99-00620         | 1          | -----       | CMO5FD620F03             | 62 PF DIP MICA           |
| C56                                                        | CD99-01120         | 1          | -----       | CMO6FD121J03             | 120 PF DIP MICA          |
| C57                                                        | CD99-00620         | 1          | -----       | CMO5FD620F03             | 62 PF DIP MICA           |
| C58                                                        | CD00-02100         | 1          | -----       | CM05E102                 | 1000 PF DIP MICA         |
| C59                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C60                                                        | CC50-02220         | 1          | 04222       | SR155C222KAA             | 2200PF CERAMIC X7R       |
| C61                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C62                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C63                                                        | CD00-02100         | 1          | -----       | CM05E102                 | 1000 PF DIP MICA         |
| C64                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C65                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C66                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C67                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C68                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C69                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C70                                                        | CC00-02220         | 1          | 04222       | SR201A222KAA             | 2200 PF CERAMIC COG      |
| C71                                                        | CC50-02470         | 1          | 31433       | C315C472K1R5CA           | 4700 PF CERAMIC X7R      |
| C72                                                        | CC50-01100         | 1          | 04222       | SR151A101JAA             | 100 PF CERAMIC NPO       |
| C73                                                        | CC50-03100         | 1          | 54583       | RD30HX7R103K             | .01 UF CERAMIC X7R       |
| C74                                                        | CC50-02470         | 1          | 31433       | C315C472K1R5CA           | 4700 PF CERAMIC X7R      |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                          |
|-----------------------------------------------------|-------------|-----|-------|-------------------|--------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description              |
| C75                                                 | CC50-04220  | 1   | 31433 | C322C224M5U5CA    | .22 UF CERAMIC Z5U       |
| C77                                                 | CC50-02220  | 1   | 04222 | SR155C222KAA      | 2200PF CERAMIC X7R       |
| C78                                                 | CC50-02100  | 1   | 04222 | SR155C122MAT      | .001 UF CERAMIC Y5P      |
| C79                                                 | CC50-01100  | 1   | 04222 | SR151A101JAA      | 100 PF CERAMIC NPO       |
| C80                                                 | CC50-02220  | 1   | 04222 | SR155C222KAA      | 2200PF CERAMIC X7R       |
| C81                                                 | CC50-02220  | 1   | 04222 | SR155C222KAA      | 2200PF CERAMIC X7R       |
| C82                                                 | CC50-02220  | 1   | 04222 | SR155C222KAA      | 2200PF CERAMIC X7R       |
| C83                                                 | CC50-02220  | 1   | 04222 | SR155C222KAA      | 2200PF CERAMIC X7R       |
| C84                                                 | CC50-03470  | 1   | 31433 | C320C473K5R5CA    | .047 UF CERAMIC X7R      |
| C85                                                 | CC50-02220  | 1   | 04222 | SR155C222KAA      | 2200PF CERAMIC X7R       |
| C86                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C87                                                 | CC50-02100  | 1   | 04222 | SR155C122MAT      | .001 UF CERAMIC Y5P      |
| C88                                                 | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C89                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C90                                                 | CK50-00100  | 1   | 54583 | CC0805HNPO15150J  | 10 PF NPO CHIP           |
| C91                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C92                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C93                                                 | CK50-00100  | 1   | 54583 | CC0805HNPO15150J  | 10 PF NPO CHIP           |
| C94                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C95                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C96                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C97                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C98                                                 | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C99                                                 | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C100                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C101                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C102                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C103                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C104                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C105                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C106                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C107                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C108                                                | CK51-02100  | 1   | 04222 | 08055C102KATMA    | 1000PF X7R CHIP CERAMIC  |
| C109                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C110                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C111                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C113                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C114                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C115                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C116                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C117                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C118                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C119                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C120                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                          |
|-----------------------------------------------------|-------------|-----|-------|-------------------|--------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description              |
| C121                                                | CK50-00100  | 1   | 54583 | CC0805HNPO15150J  | 10 PF NPO CHIP           |
| C122                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C123                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C124                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C125                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C126                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C127                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C128                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C129                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C130                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C131                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C132                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C133                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C134                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C135                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C136                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C137                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C138                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C139                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C140                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C141                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C142                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C143                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C144                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C145                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C146                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C147                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C148                                                | CK50-03100  | 1   | 31433 | C0805C103K5RAC    | .01 UF X7R CHIP CERAMIC  |
| C149                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C150                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C151                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C152                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C153                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C154                                                | CC50-03100  | 1   | 54583 | RD30HX7R103K      | .01 UF CERAMIC X7R       |
| C155                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C156                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C157                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C158                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C159                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C160                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C161                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C162                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C163                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C164                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                          |
|-----------------------------------------------------|-------------|-----|-------|-------------------|--------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description              |
| C165                                                | CC51-04100  | 1   | 04222 | SR205C-104KAA     | .1 UF CERAMIC X7R        |
| C166                                                | CE50-R6100  | 1   | 55680 | UVX1H100MDA       | 10 UF 50V RADIAL LEAD    |
| C167                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C168                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C169                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C170                                                | CK50-00100  | 1   | 54583 | CC0805HNPO15150J  | 10 PF NPO CHIP           |
| C171                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C172                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C173                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C174                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C175                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C176                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C177                                                | CC50-04220  | 1   | 31433 | C322C224M5U5CA    | .22 UF CERAMIC Z5U       |
| C178                                                | CK51-02100  | 1   | 04222 | 08055C102KATMA    | 1000PF X7R CHIP CERAMIC  |
| C179                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C180                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C181                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C182                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C183                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C184                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C185                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C186                                                | CK51-02100  | 1   | 04222 | 08055C102KATMA    | 1000PF X7R CHIP CERAMIC  |
| C187                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C188                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C189                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C190                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C191                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C192                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C193                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C194                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C195                                                | CK51-05220  | 1   | 58900 | CK51-05220        | 2.2 UF Y5V CHIP CERAMIC  |
| C196                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C197                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C198                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C199                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C200                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C201                                                | CK51-02100  | 1   | 04222 | 08055C102KATMA    | 1000PF X7R CHIP CERAMIC  |
| C202                                                | CT25-S6101  | 1   | 04222 | TAJD106M025R      | 10 UF 25V TANTALUM SMT   |
| C203                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C204                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C205                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C206                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C207                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |
| C208                                                | CK50-03470  | 1   | 31433 | C0805C473K5RAC    | .047 UF X7R CHIP CERAMIC |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                               |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|-------------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>            |
| C209                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C210                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C211                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT        |
| C212                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C215                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C216                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C217                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT        |
| C218                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C219                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C220                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C222                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C223                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT        |
| C224                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C225                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C226                                                       | CT25-S6101         | 1          | 04222       | TAJD106M025R             | 10 UF 25V TANTALUM SMT        |
| C227                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C228                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C229                                                       | CK50-01100         | 1          | 58900       | CK50-01100               | 100 PF CERAMIC NPO            |
| C230                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C231                                                       | CK50-01470         | 1          | 58900       | CK50-01470               | 470 PF COG CHIP CERAMIC       |
| C232                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C233                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C234                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C235                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C236                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C237                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C238                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C239                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C240                                                       | CK50-03100         | 1          | 31433       | C0805C103K5RAC           | .01 UF X7R CHIP CERAMIC       |
| C241                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C242                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C243                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C244                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C245                                                       | CK50-03470         | 1          | 31433       | C0805C473K5RAC           | .047 UF X7R CHIP CERAMIC      |
| C246                                                       | CK50-01470         | 1          | 58900       | CK50-01470               | 470 PF COG CHIP CERAMIC       |
| C247                                                       | CK50-01470         | 1          | 58900       | CK50-01470               | 470 PF COG CHIP CERAMIC       |
| C248                                                       | CK50-01470         | 1          | 58900       | CK50-01470               | 470 PF COG CHIP CERAMIC       |
| CR2                                                        | DSA0-04148         | 1          | 58900       | DSA0-04148               | 1N4148 G.P. DIODE             |
| CR3                                                        | DSA0-04148         | 1          | 58900       | DSA0-04148               | 1N4148 G.P. DIODE             |
| CR4                                                        | DSA0-04148         | 1          | 58900       | DSA0-04148               | 1N4148 G.P. DIODE             |
| CR5                                                        | DSA0-04148         | 1          | 58900       | DSA0-04148               | 1N4148 G.P. DIODE             |
| CR6                                                        | DSA0-04148         | 1          | 58900       | DSA0-04148               | 1N4148 G.P. DIODE             |
| CR7                                                        | DSA0-04148         | 1          | 58900       | DSA0-04148               | 1N4148 G.P. DIODE             |
| CR8                                                        | 13618              | 1          | 58900       | 13618                    | DIODE,uWAVE PIN SW,,3PF,100ns |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                               |
|-----------------------------------------------------|-------------|-----|-------|-------------------|-------------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description                   |
| CR9                                                 | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,.3PF,100ns |
| CR10                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,.3PF,100ns |
| CR11                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,.3PF,100ns |
| CR12                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,.3PF,100ns |
| CR13                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,.3PF,100ns |
| CR14                                                | 13618       | 1   | 58900 | 13618             | DIODE,uWAVE PIN SW,.3PF,100ns |
| CR15                                                | DSA0-04148  | 1   | 58900 | DSA0-04148        | 1N4148 G.P. DIODE             |
| CR16                                                | DSA2-00099  | 1   | 58900 | DSA2-00099        | BAV99 DUAL DIODE SMT          |
| CR17                                                | DSA2-00099  | 1   | 58900 | DSA2-00099        | BAV99 DUAL DIODE SMT          |
| CR18                                                | DSA2-00099  | 1   | 58900 | DSA2-00099        | BAV99 DUAL DIODE SMT          |
| CR19                                                | DSA2-00099  | 1   | 58900 | DSA2-00099        | BAV99 DUAL DIODE SMT          |
| CR20                                                | DZAB-00751  | 1   | 04713 | 1N751A            | 1N751A 5.1V ZENER             |
| J1                                                  | JIR2-14318  | 1   | 09769 | 102975-7          | 14 PIN STRIPLINE PLUG         |
| J2                                                  | JIR2-14318  | 1   | 09769 | 102975-7          | 14 PIN STRIPLINE PLUG         |
| J3                                                  | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT         |
| J4                                                  | JRDF-00008  | 1   | 09769 | 413524-1          | BNC F RT ANG PC MOUNT         |
| J5                                                  | JRBM-00100  | 1   | 58900 | JRBM-00100        | SMB M PC MOUNT                |
| L11                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| L12                                                 | 19203       | 1   | OB3G8 | 19203             | .1 UH RF COIL                 |
| L13                                                 | 15293       | 1   | 58900 | 15293             | .17 UH INDUCTOR               |
| L14                                                 | 15293       | 1   | 58900 | 15293             | .17 UH INDUCTOR               |
| L15                                                 | 15293       | 1   | 58900 | 15293             | .17 UH INDUCTOR               |
| L16                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| L17                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| L18                                                 | LAB0-05680  | 1   | 58900 | LAB0-05680        | 6.8 UH INDUCTOR               |
| P1                                                  | JIA2-50318  | 1   | 09769 | 2-87227-5         | 50 PIN STRIPLINE PLUG         |
| Q1                                                  | QBPP-00170  | 1   | 04713 | MJE 170           | MJE 170 3A 40V 12.5W PNP      |
| Q2                                                  | QBNS-03904  | 1   | 04713 | 2N3904            | 2N3904 .2A 40V NPN            |
| Q3                                                  | QBNS-03904  | 1   | 04713 | 2N3904            | 2N3904 .2A 40V NPN            |
| Q4                                                  | QBNP-00231  | 1   | 58900 | QBNP-00231        | BFQ231 1W 1GHZ NPN            |
| Q5                                                  | QBPS-03644  | 1   | 53387 | 2N3645            | 2N3644 .3 A 45 V PNP          |
| Q6                                                  | QBNS-03569  | 1   | 4U751 | 2N3569            | PN3569 .5A 40V NPN            |
| Q7                                                  | QBNS-03569  | 1   | 4U751 | 2N3569            | PN3569 .5A 40V NPN            |
| Q8                                                  | QBNC-03904  | 1   | 04713 | MMBT3904L         | 2N3904 .2A 40V NPN SMT        |
| Q9                                                  | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q10                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q11                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q12                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q13                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q14                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q15                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q16                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q17                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |
| Q18                                                 | QJNS-04416  | 1   | 04713 | MMBF4416L         | MMBF4416L FET AMP SMT         |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                         |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|-------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>      |
| Q19                                                        | QJNS-04416         | 1          | 04713       | MMBF4416L                | MMBF4416L FET AMP SMT   |
| Q20                                                        | QJNS-04416         | 1          | 04713       | MMBF4416L                | MMBF4416L FET AMP SMT   |
| Q21                                                        | QJNS-04416         | 1          | 04713       | MMBF4416L                | MMBF4416L FET AMP SMT   |
| Q22                                                        | QJNS-04416         | 1          | 04713       | MMBF4416L                | MMBF4416L FET AMP SMT   |
| Q23                                                        | QJNS-04416         | 1          | 04713       | MMBF4416L                | MMBF4416L FET AMP SMT   |
| Q24                                                        | QJNS-04416         | 1          | 04713       | MMBF4416L                | MMBF4416L FET AMP SMT   |
| R1                                                         | RK45-15100         | 1          | -----       | RK73H2AT5111F            | 5.1K OHM 1% FILM SMT    |
| R2                                                         | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R3                                                         | RK45-05490         | 1          | -----       | RK73H2AT5490F            | 549 OHM 1% FILM SMT     |
| R4                                                         | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R5                                                         | RK45-03160         | 1          | -----       | RK73H2AT3160F            | 316 OHM 1% FILM SMT     |
| R6                                                         | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R7                                                         | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R8                                                         | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R9                                                         | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R10                                                        | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R11                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R12                                                        | RK45-05490         | 1          | -----       | RK73H2AT5490F            | 549 OHM 1% FILM SMT     |
| R13                                                        | RK45-03160         | 1          | -----       | RK73H2AT3160F            | 316 OHM 1% FILM SMT     |
| R14                                                        | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R15                                                        | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R16                                                        | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R17                                                        | RK45-31470         | 1          | -----       | RK73H2AT1473F            | 147K OHM 1% FILM SMT    |
| R18                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R19                                                        | RK45-02870         | 1          | -----       | RK73H2AT2870F            | 287 OHM 1% FILM SMT     |
| R20                                                        | RK45-32490         | 1          | 58900       | RK45-32490               | 249K OHM 1% FILM SMT    |
| R21                                                        | RK45-21470         | 1          | 58900       | RK45-21470               | 14.7K OHM 1% FILM SMT   |
| R22                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R23                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R24                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R25                                                        | RK45-00681         | 1          | 59124       | RK73H2AT68R1F            | 68.1 OHM 1% FILM SMT    |
| R26                                                        | RK45-00681         | 1          | 59124       | RK73H2AT68R1F            | 68.1 OHM 1% FILM SMT    |
| R27                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R28                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R29                                                        | RK45-15100         | 1          | -----       | RK73H2AT5111F            | 5.1K OHM 1% FILM SMT    |
| R30                                                        | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM    |
| R31                                                        | RN55-03320         | 1          | 91637       | RN55C3320F               | 332 OHMS 1% MET FILM    |
| R32                                                        | RN55-03320         | 1          | 91637       | RN55C3320F               | 332 OHMS 1% MET FILM    |
| R33                                                        | RN55-11820         | 1          | 91637       | RN55C1821F               | 1.82 K OHMS 1% MET FILM |
| R34                                                        | RK45-31000         | 1          | -----       | RK73H2AT1003F            | 100K OHM 1% FILM SMT    |
| R35                                                        | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM |
| R36                                                        | RK45-05490         | 1          | -----       | RK73H2AT5490F            | 549 OHM 1% FILM SMT     |
| R37                                                        | RK45-32490         | 1          | 58900       | RK45-32490               | 249K OHM 1% FILM SMT    |
| R38                                                        | RK45-14420         | 1          | 58900       | RK45-14420               | 4.42K OHM 1% FILM SMT   |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                       |
|-----------------------------------------------------|-------------|-----|-------|-------------------|-----------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description           |
| R39                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R40                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT  |
| R41                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT  |
| R42                                                 | RK45-15100  | 1   | ----- | RK73H2AT5111F     | 5.1K OHM 1% FILM SMT  |
| R43                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R44                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R45                                                 | RK45-15100  | 1   | ----- | RK73H2AT5111F     | 5.1K OHM 1% FILM SMT  |
| R46                                                 | RK45-22670  | 1   | 58900 | RK45-22670        | 26.7K OHM 1% FILM SMT |
| R47                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R48                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R49                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R50                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R51                                                 | RK45-23010  | 1   | 91637 | CRCW08053012FT    | 30.1K OHM 1% FILM SMT |
| R52                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R53                                                 | RK45-23010  | 1   | 91637 | CRCW08053012FT    | 30.1K OHM 1% FILM SMT |
| R54                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R55                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R56                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R57                                                 | RK45-03160  | 1   | ----- | RK73H2AT3160F     | 316 OHM 1% FILM SMT   |
| R58                                                 | RK45-00681  | 1   | 59124 | RK73H2AT68R1F     | 68.1 OHM 1% FILM SMT  |
| R59                                                 | RK45-23010  | 1   | 91637 | CRCW08053012FT    | 30.1K OHM 1% FILM SMT |
| R60                                                 | RK45-00681  | 1   | 59124 | RK73H2AT68R1F     | 68.1 OHM 1% FILM SMT  |
| R61                                                 | RK45-00196  | 1   | 59124 | RN73K2A19R6F      | 19.6 OHM 1% FILM SMT  |
| R62                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R63                                                 | RK45-00412  | 1   | 58900 | RK45-00412        | 41.2 OHM 1% FILM SMT  |
| R64                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R65                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R66                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R67                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R68                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R69                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R70                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R71                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R72                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R73                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R74                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R75                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R76                                                 | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R77                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R78                                                 | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R85                                                 | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT   |
| R86                                                 | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT   |
| R87                                                 | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT  |
| R88                                                 | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                           |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|---------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>        |
| R89                                                        | RK45-01800         | 1          | ----        | RN73C2AT1800F            | 180 OHM 1% FILM SMT       |
| R90                                                        | RK45-32490         | 1          | 58900       | RK45-32490               | 249K OHM 1% FILM SMT      |
| R91                                                        | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT     |
| R92                                                        | RK45-14420         | 1          | 58900       | RK45-14420               | 4.42K OHM 1% FILM SMT     |
| R93                                                        | RK45-05490         | 1          | ----        | RK73H2AT5490F            | 549 OHM 1% FILM SMT       |
| R94                                                        | RK45-01800         | 1          | ----        | RN73C2AT1800F            | 180 OHM 1% FILM SMT       |
| R95                                                        | RK45-01800         | 1          | ----        | RN73C2AT1800F            | 180 OHM 1% FILM SMT       |
| R96                                                        | RK45-31000         | 1          | ----        | RK73H2AT1003F            | 100K OHM 1% FILM SMT      |
| R97                                                        | RN55-11820         | 1          | 91637       | RN55C1821F               | 1.82 K OHMS 1% MET FILM   |
| R98                                                        | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R99                                                        | RN55-00274         | 1          | 91637       | RN55C27R4F               | 27.4 OHMS 1% MET FILM     |
| R100                                                       | RN57-25000         | 1          | 58900       | RN57-25000               | 50.0 K OHM .1 % MET FILM  |
| R101                                                       | RN57-25000         | 1          | 58900       | RN57-25000               | 50.0 K OHM .1 % MET FILM  |
| R102                                                       | RN57-25000         | 1          | 58900       | RN57-25000               | 50.0 K OHM .1 % MET FILM  |
| R103                                                       | RN57-25000         | 1          | 58900       | RN57-25000               | 50.0 K OHM .1 % MET FILM  |
| R104                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT     |
| R105                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT     |
| R106                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT     |
| R107                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R108                                                       | RN55-03920         | 1          | 91637       | RN55C3920F               | 392 OHMS 1% MET FILM      |
| R109                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT     |
| R110                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT     |
| R111                                                       | RK45-05490         | 1          | ----        | RK73H2AT5490F            | 549 OHM 1% FILM SMT       |
| R112                                                       | RK45-21470         | 1          | 58900       | RK45-21470               | 14.7K OHM 1% FILM SMT     |
| R113                                                       | RN55-24750         | 1          | 91637       | RN55C4752F               | 47.5 K OHMS 1% MET FILM   |
| R114                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |
| R115                                                       | RN55-11130         | 1          | 91637       | RN55D 1.13K OHM 1%       | 1.13 K OHMS 1% MET FILM   |
| R117                                                       | RN57-21500         | 1          | 58900       | RN57-21500               | 15.0 K OHM .1 % MET FILM  |
| R118                                                       | RN57-11290         | 1          | 53387       | LM3C1291B                | 1.29K OHM .1% MET FILM    |
| R119                                                       | RN57-21250         | 1          | 60393       | GP 1/4-TC50-12.5-.1%     | 12.5 K OHM .1% MET FILM   |
| R120                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R121                                                       | RN55-41000         | 1          | 91637       | RN55C1004F               | 1 M OHMS 1% MET FILM      |
| R122                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R123                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM     |
| R124                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R125                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM   |
| R126                                                       | RN57-21333         | 1          | 58900       | RN57-21333               | 13.33 K OHM .1 % MET FILM |
| R127                                                       | 12449-129          | 1          | 58900       | 12449-129                | 40.0 K OHM .1 % MET FILM  |
| R128                                                       | RN55-12210         | 1          | 91637       | RN55C2211F               | 2.21 K OHMS 1% MET FILM   |
| R129                                                       | RK45-31470         | 1          | ----        | RK73H2AT1473F            | 147K OHM 1% FILM SMT      |
| R130                                                       | RK45-22670         | 1          | 58900       | RK45-22670               | 26.7K OHM 1% FILM SMT     |
| R131                                                       | RN55-12000         | 1          | 91637       | RN55C2001F               | 2.00 K OHMS 1% MET FILM   |
| R132                                                       | RN55-12000         | 1          | 91637       | RN55C2001F               | 2.00 K OHMS 1% MET FILM   |
| R133                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM      |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                      |                          |
|-----------------------------------------------------|-------------|-----|-------|----------------------|--------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number    | Description              |
| R134                                                | RN55-13010  | 1   | 91637 | RN55C3011F           | 3.01 K OHMS 1% MET FILM  |
| R135                                                | RN55-22210  | 1   | 91637 | RN55C2212F           | 22.1 K OHMS 1% MET FILM  |
| R136                                                | RN55-23160  | 1   | 91637 | RN55C3162F           | 31.6 K OHMS 1% MET FILM  |
| R137                                                | RN55-21330  | 1   | 91637 | RN55C1332F           | 13.3 K OHMS 1% MET FILM  |
| R138                                                | RK45-13320  | 1   | 91637 | CRCW08053321FT       | 3.32K OHM 1% FILM SMT    |
| R139                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R140                                                | RN55-14990  | 1   | 91637 | RN55C4991F           | 4.99 K OHMS 1% MET FILM  |
| R141                                                | RN57-18000  | 1   | 58900 | RN57-18000           | 8.00 K OHM .1 % MET FILM |
| R142                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM    |
| R143                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM    |
| R144                                                | RN55-00274  | 1   | 91637 | RN55C27R4F           | 27.4 OHMS 1% MET FILM    |
| R145                                                | RK45-02870  | 1   | ----  | RK73H2AT2870F        | 287 OHM 1% FILM SMT      |
| R146                                                | RN55-12490  | 1   | 91637 | RN55C2491F           | 2.49 K OHMS 1% MET FILM  |
| R147                                                | RN55-12490  | 1   | 91637 | RN55C2491F           | 2.49 K OHMS 1% MET FILM  |
| R148                                                | RN55-21210  | 1   | 91637 | RN55C1212F           | 12.1 K OHMS 1% MET FILM  |
| R149                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM    |
| R150                                                | RN55-03740  | 1   | 91637 | RN55C3740F           | 374 OHMS 1% MET FILM     |
| R151                                                | RN55-03740  | 1   | 91637 | RN55C3740F           | 374 OHMS 1% MET FILM     |
| R152                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R153                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R154                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R155                                                | RN55-04990  | 1   | 91637 | RN55C4990F           | 499 OHMS 1% MET FILM     |
| R156                                                | RN55-04990  | 1   | 91637 | RN55C4990F           | 499 OHMS 1% MET FILM     |
| R157                                                | RN55-00619  | 1   | 91637 | CCF55-2-61.9^1%T2T/R | 61.9 OHMS 1% MET FILM    |
| R158                                                | RN55-00953  | 1   | 91637 | RNC55H95R3FP         | 95.3 OHM 1% MET FILM     |
| R159                                                | RN55-00953  | 1   | 91637 | RNC55H95R3FP         | 95.3 OHM 1% MET FILM     |
| R160                                                | RN55-11500  | 1   | 91637 | RN55C1501F           | 1.5 K OHMS 1% MET FILM   |
| R161                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R162                                                | RN55-00287  | 1   | 91637 | CCF55-2-28.7^1%T2T/R | 28.7 OHMS 1% MET FILM    |
| R163                                                | RN55-00110  | 1   | 91637 | RN55C11R0F           | 11.0 OHMS 1% MET FILM    |
| R164                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R165                                                | RN55-04990  | 1   | 91637 | RN55C4990F           | 499 OHMS 1% MET FILM     |
| R166                                                | RN55-00619  | 1   | 91637 | CCF55-2-61.9^1%T2T/R | 61.9 OHMS 1% MET FILM    |
| R167                                                | RN55-02430  | 1   | 91637 | RN55C2430F           | 243 OHMS 1% MET FILM     |
| R168                                                | RN55-11000  | 1   | 91637 | RN55C1001F           | 1 K OHMS 1% MET FILM     |
| R169                                                | RN55-04990  | 1   | 91637 | RN55C4990F           | 499 OHMS 1% MET FILM     |
| R170                                                | RN55-00619  | 1   | 91637 | CCF55-2-61.9^1%T2T/R | 61.9 OHMS 1% MET FILM    |
| R171                                                | RN55-23010  | 1   | 91637 | RN55C3012F           | 30.1 K OHMS 1% MET FILM  |
| R172                                                | RN55-31100  | 1   | 91637 | RN55C1103F           | 110 K OHMS 1% MET FILM   |
| R173                                                | RN55-12740  | 1   | 91637 | RN55C2741F           | 2.74K OHMS 1% MET FILM   |
| R174                                                | RG03-00150  | 1   | 91637 | FP215R0 5%           | 15 OHM 10% METAL GLAZE   |
| R175                                                | RN55-11500  | 1   | 91637 | RN55C1501F           | 1.5 K OHMS 1% MET FILM   |
| R176                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM    |
| R177                                                | RN55-21000  | 1   | 53387 | RN 1/4 T2 10K 1%     | 10 K OHMS 1% MET FILM    |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                         |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|-------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>      |
| R178                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM   |
| R179                                                       | RN55-22210         | 1          | 91637       | RN55C2212F               | 22.1 K OHMS 1% MET FILM |
| R180                                                       | RN55-21500         | 1          | 91637       | RN55C1502F               | 15 K OHMS 1% MET FILM   |
| R181                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM |
| R182                                                       | RN55-14750         | 1          | 91637       | RN55C4751F               | 4.75 K OHMS 1% MET FILM |
| R183                                                       | RN55-02490         | 1          | 91637       | RN55C2490F               | 249 OHMS 1% MET FILM    |
| R184                                                       | RN55-34750         | 1          | 91637       | RN55C4753F               | 475 K OHMS 1% MET FILM  |
| R185                                                       | RN55-11000         | 1          | 91637       | RN55C1001F               | 1 K OHMS 1% MET FILM    |
| R186                                                       | RN55-12000         | 1          | 91637       | RN55C2001F               | 2.00 K OHMS 1% MET FILM |
| R187                                                       | RN55-00100         | 1          | 91637       | RN55C10R0F               | 10 OHMS 1% MET FILM     |
| R188                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R189                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R190                                                       | RK45-00576         | 1          | 59124       | RN73K2A57R6F             | 57.6 OHM 1% FILM SMT    |
| R191                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R192                                                       | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R193                                                       | RK45-01800         | 1          | -----       | RN73C2AT1800F            | 180 OHM 1% FILM SMT     |
| R194                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R195                                                       | RK45-21000         | 1          | -----       | RK73H2AT1002F            | 10.0K OHM 1% FILM SMT   |
| R196                                                       | RK45-32490         | 1          | 58900       | RK45-32490               | 249K OHM 1% FILM SMT    |
| R198                                                       | RN55-01000         | 1          | 91637       | RN55C1000F               | 100 OHMS 1% MET FILM    |
| R199                                                       | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM   |
| R200                                                       | RK45-32490         | 1          | 58900       | RK45-32490               | 249K OHM 1% FILM SMT    |
| R201                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R202                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R203                                                       | RW03-00390         | 1          | 91637       | RS-2B-39-1               | 39 OHM 3W WIREWOUND     |
| R204                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R205                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R206                                                       | RK45-03160         | 1          | -----       | RK73H2AT3160F            | 316 OHM 1% FILM SMT     |
| R207                                                       | RK45-31470         | 1          | -----       | RK73H2AT1473F            | 147K OHM 1% FILM SMT    |
| R208                                                       | RK45-21470         | 1          | 58900       | RK45-21470               | 14.7K OHM 1% FILM SMT   |
| R209                                                       | RK45-22670         | 1          | 58900       | RK45-22670               | 26.7K OHM 1% FILM SMT   |
| R210                                                       | RK45-05490         | 1          | -----       | RK73H2AT5490F            | 549 OHM 1% FILM SMT     |
| R212                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R213                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R214                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R215                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R216                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R217                                                       | RK45-31470         | 1          | -----       | RK73H2AT1473F            | 147K OHM 1% FILM SMT    |
| R219                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R220                                                       | RK45-22670         | 1          | 58900       | RK45-22670               | 26.7K OHM 1% FILM SMT   |
| R221                                                       | RK45-02870         | 1          | -----       | RK73H2AT2870F            | 287 OHM 1% FILM SMT     |
| R222                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R223                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R224                                                       | RK45-02870         | 1          | -----       | RK73H2AT2870F            | 287 OHM 1% FILM SMT     |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                       |
|-----------------------------------------------------|-------------|-----|-------|-------------------|-----------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description           |
| R225                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R226                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R227                                                | RK45-00576  | 1   | 59124 | RN73K2A57R6F      | 57.6 OHM 1% FILM SMT  |
| R228                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R229                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R230                                                | RK45-21470  | 1   | 58900 | RK45-21470        | 14.7K OHM 1% FILM SMT |
| R231                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT   |
| R232                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R233                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R234                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R235                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R236                                                | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT  |
| R238                                                | RK45-32490  | 1   | 58900 | RK45-32490        | 249K OHM 1% FILM SMT  |
| R240                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R241                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R242                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R243                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R244                                                | RK45-00412  | 1   | 58900 | RK45-00412        | 41.2 OHM 1% FILM SMT  |
| R245                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R246                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R247                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R248                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R249                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R250                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R251                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R252                                                | RN55-00475  | 1   | 91637 | RN55C47R5F        | 47.5 OHMS 1% MET FILM |
| R253                                                | RK45-23010  | 1   | 91637 | CRCW08053012FT    | 30.1K OHM 1% FILM SMT |
| R254                                                | RK45-23010  | 1   | 91637 | CRCW08053012FT    | 30.1K OHM 1% FILM SMT |
| R255                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R256                                                | RK45-21000  | 1   | ----- | RK73H2AT1002F     | 10.0K OHM 1% FILM SMT |
| R257                                                | RK45-12400  | 1   | ----- | RK73H2AT2431F     | 2.4K OHM 1% FILM SMT  |
| R258                                                | RK45-04990  | 1   | ----- | RK73H2AT4990F     | 499 OHM 1% FILM SMT   |
| R259                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R260                                                | RK45-09530  | 1   | ----- | RK73H2AT9530F     | 953 OHM 1% FILM SMT   |
| R261                                                | RK45-09530  | 1   | ----- | RK73H2AT9530F     | 953 OHM 1% FILM SMT   |
| R262                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R263                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT   |
| R264                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT   |
| R265                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT   |
| R266                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT   |
| R267                                                | RK45-05490  | 1   | ----- | RK73H2AT5490F     | 549 OHM 1% FILM SMT   |
| R268                                                | RK45-01800  | 1   | ----- | RN73C2AT1800F     | 180 OHM 1% FILM SMT   |
| R269                                                | RK45-11000  | 1   | 65940 | MCR10EZFHF1001    | 1.00K OHM 1% FILM SMT |
| R270                                                | RK45-00196  | 1   | 59124 | RN73K2A19R6F      | 19.6 OHM 1% FILM SMT  |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                         |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|-------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>      |
| R271                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R272                                                       | RK45-11000         | 1          | 65940       | MCR10EZFHF1001           | 1.00K OHM 1% FILM SMT   |
| R273                                                       | RW03-00390         | 1          | 91637       | RS-2B-39-1               | 39 OHM 3W WIREWOUND     |
| R274                                                       | RW03-00390         | 1          | 91637       | RS-2B-39-1               | 39 OHM 3W WIREWOUND     |
| R275                                                       | RW03-00390         | 1          | 91637       | RS-2B-39-1               | 39 OHM 3W WIREWOUND     |
| RP1                                                        | RM9S-21001         | 1          | 58900       | RM9S-21001               | 10K OHM X 9 SIP NETWORK |
| RP2                                                        | RM9S-21001         | 1          | 58900       | RM9S-21001               | 10K OHM X 9 SIP NETWORK |
| RP3                                                        | RM9S-21001         | 1          | 58900       | RM9S-21001               | 10K OHM X 9 SIP NETWORK |
| RT2                                                        | RTC2-21000         | 1          | 56866       | QTM-14                   | 10 K OHM THERMISTOR     |
| RT3                                                        | FSS0-00050         | 1          | 06090       | RXE050                   | .5A RES CIRCUIT BREAKER |
| RT4                                                        | FSS0-00050         | 1          | 06090       | RXE050                   | .5A RES CIRCUIT BREAKER |
| TP1                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP2                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP3                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP4                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP5                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP6                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP7                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP8                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP9                                                        | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP10                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP11                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP12                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP13                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP14                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP15                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP16                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP17                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP18                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP19                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP20                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP21                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP22                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP23                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP24                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP25                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP26                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP27                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP28                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP29                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP30                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP31                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP32                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |
| TP33                                                       | ETI0-10018         | 1          | 58900       | ETI0-10018               | BLACK TEST POINT        |

## Series 8540C Universal Power Meters

| 30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued) |             |     |       |                   |                              |
|-----------------------------------------------------|-------------|-----|-------|-------------------|------------------------------|
| Item                                                | Part Number | Qty | Cage  | Mfr's Part Number | Description                  |
| TP34                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT             |
| TP35                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT             |
| TP36                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT             |
| TP37                                                | ETI0-10018  | 1   | 58900 | ETI0-10018        | BLACK TEST POINT             |
| U1                                                  | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP    |
| U2                                                  | ULN0-00411  | 1   | 17856 | DG411DJ           | DG411DJ QUAD SPST SWITCH     |
| U3                                                  | UFN0-03240  | 1   | 58900 | UFN0-03240        | CA3240E DUAL OP AMP          |
| U4                                                  | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP    |
| U5                                                  | ULN0-00393  | 1   | 01295 | LM393P            | LM393N VOLT COMPARATOR       |
| U6                                                  | UVG0-00070  | 1   | 64155 | LM199H            | LM399H 7V PRECISION ZENER    |
| U7                                                  | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP    |
| U8                                                  | ULN0-00411  | 1   | 17856 | DG411DJ           | DG411DJ QUAD SPST SWITCH     |
| U9                                                  | UTN0-00322  | 1   | 01295 | 74HC32N           | 74HC32 QUAD 2 INPUT OR       |
| U10                                                 | UTN0-00082  | 1   | 01295 | SN74HC08N         | 74HC08N QUAD AND             |
| U11                                                 | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP    |
| U12                                                 | UFN0-05135  | 1   | 01295 | OP-07/CP          | HA5135-5 PRECISION OP AMP    |
| U13                                                 | UIN0-07534  | 1   | 24355 | AD7534JN          | AD7534JN 14 BIT DAC          |
| U14                                                 | UMN0-02444  | 1   | 60395 | X2444P            | X2444P 256 BIT NV RAM        |
| U15                                                 | UTN0-00042  | 1   | 01295 | SN74HC04N         | 74HC04 HEX INVERTER SMT      |
| U16                                                 | UFN1-00324  | 1   | 01295 | LM324N            | LM324AN QUAD OP AMP          |
| U17                                                 | UID0-07245  | 1   | 24355 | AD7245AAR         | AD7245AAR 12 BIT DAC SMT     |
| U18                                                 | UGN0-71055  | 1   | 4T165 | UPD71055C         | uPD71055 PARALLEL INTERFACE  |
| U19                                                 | UFN1-00324  | 1   | 01295 | LM324N            | LM324AN QUAD OP AMP          |
| U20                                                 | UID0-07245  | 1   | 24355 | AD7245AAR         | AD7245AAR 12 BIT DAC SMT     |
| U21                                                 | UGN0-71055  | 1   | 4T165 | UPD71055C         | uPD71055 PARALLEL INTERFACE  |
| U22                                                 | UID0-07891  | 1   | 24355 | AD7891AP-2        | AD7891AP-2 MUX/ADC SMT       |
| U23                                                 | URD1-07805  | 1   | 04713 | MC78L05ACD        | MC78L05ACD .1A 5V REG        |
| U24                                                 | UFD0-01007  | 1   | 64155 | LT1007CS8         | LT1007CS8 OP AMP             |
| U25                                                 | UFD0-01356  | 1   | 64155 | LT1356CS          | LT1356CS QUAD OPAMP SMT      |
| U26                                                 | UFD0-00436  | 1   | 62839 | CLC436AJE         | CLC436AJE OP AMP SMT         |
| U27                                                 | UFD0-01007  | 1   | 64155 | LT1007CS8         | LT1007CS8 OP AMP             |
| U28                                                 | ULD0-00613  | 1   | 17856 | DG613DY           | DG613DY 4PST SWITCH SMT      |
| U29                                                 | UFD0-00426  | 1   | 62839 | CLC426AJE         | CLC426AJE OP AMP,SMT         |
| U31                                                 | ULD0-00409  | 1   | 17856 | DG409DY           | DG409DY 2X 4IN SWITCH SMT    |
| U32                                                 | ULD0-00613  | 1   | 17856 | DG613DY           | DG613DY 4PST SWITCH SMT      |
| U33                                                 | URD1-07812  | 1   | 04713 | MC78M12CDT        | MC78M12CDT .5A 12V REG       |
| U34                                                 | URD0-07912  | 1   | 01295 | MC79L12ACD        | MC79L12ACD .1A 12V SMT       |
| U35                                                 | URD0-07812  | 1   | 04713 | MC78L12ACD        | MC78L12ACD .1A 12V SMT       |
| U36                                                 | ULD0-00642  | 1   | 17856 | DG642DY           | DG642DY SPDT SWITCH SMT      |
| U37                                                 | UID0-07245  | 1   | 24355 | AD7245AAR         | AD7245AAR 12 BIT DAC SMT     |
| U38                                                 | UFN1-00358  | 1   | 01295 | LM358AP           | LM358AN DUAL OP AMP          |
| U39                                                 | UFD0-00324  | 1   | 04713 | LM324D            | LM324D QUAD OP AMP SMT       |
| U40                                                 | URD1-07912  | 1   | 01295 | UA78M45CKTP       | MC79M12CDT .5A -12V REG      |
| U41                                                 | UTD0-00143  | 1   | 04713 | MC74HCT14AD       | 74HCT14D HEX SCHMITT INV SMT |

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                           |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|---------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>        |
| U44                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U45                                                        | UFD0-00111         | 1          | 62839       | CLC111AJE                | CLC111AJE BUFFER SMT      |
| U46                                                        | UFD0-00111         | 1          | 62839       | CLC111AJE                | CLC111AJE BUFFER SMT      |
| U47                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U48                                                        | UFD0-00426         | 1          | 62839       | CLC426AJE                | CLC426AJE OP AMP,SMT      |
| U52                                                        | UFD0-00428         | 1          | 62839       | CLC428JE                 | CLC428AJE OP AMP SMT      |
| U53                                                        | UFD0-00428         | 1          | 62839       | CLC428JE                 | CLC428AJE OP AMP SMT      |
| U54                                                        | UFD0-01356         | 1          | 64155       | LT1356CS                 | LT1356CS QUAD OPAMP SMT   |
| U56                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U57                                                        | URD0-07905         | 1          | 04713       | MC79M05CDT               | MC79M05CDT .5A -5V SMT    |
| U58                                                        | URD0-07805         | 1          | 04713       | MC78M05CDT               | MC78M05CDT.5A 5V REG SM   |
| U59                                                        | UFD0-00428         | 1          | 62839       | CLC428JE                 | CLC428AJE OP AMP SMT      |
| U62                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U64                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U66                                                        | ULD0-00409         | 1          | 17856       | DG409DY                  | DG409DY 2X 4IN SWITCH SMT |
| U67                                                        | UFD0-01007         | 1          | 64155       | LT1007CS8                | LT1007CS8 OP AMP          |
| U68                                                        | UFD0-00426         | 1          | 62839       | CLC426AJE                | CLC426AJE OP AMP,SMT      |
| U69                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U70                                                        | UFD0-00111         | 1          | 62839       | CLC111AJE                | CLC111AJE BUFFER SMT      |
| U71                                                        | UFD0-01007         | 1          | 64155       | LT1007CS8                | LT1007CS8 OP AMP          |
| U72                                                        | UFD0-00111         | 1          | 62839       | CLC111AJE                | CLC111AJE BUFFER SMT      |
| U73                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U74                                                        | UFD0-00426         | 1          | 62839       | CLC426AJE                | CLC426AJE OP AMP,SMT      |
| U76                                                        | UFD0-01356         | 1          | 64155       | LT1356CS                 | LT1356CS QUAD OPAMP SMT   |
| U78                                                        | UFD0-00428         | 1          | 62839       | CLC428JE                 | CLC428AJE OP AMP SMT      |
| U81                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U82                                                        | URD0-07805         | 1          | 04713       | MC78M05CDT               | MC78M05CDT.5A 5V REG SM   |
| U83                                                        | URD0-07905         | 1          | 04713       | MC79M05CDT               | MC79M05CDT .5A -5V SMT    |
| U86                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U88                                                        | ULD0-00643         | 1          | 17856       | DG643DY                  | DG643DY 2PDT SWITCH SMT   |
| U90                                                        | ULD0-00642         | 1          | 17856       | DG642DY                  | DG642DY SPDT SWITCH SMT   |
| U91                                                        | UID0-01410         | 1          | 64155       | LTC1410CS                | LTC1410CS 12 BIT A/D SMT  |
| U95                                                        | UFD0-01356         | 1          | 64155       | LT1356CS                 | LT1356CS QUAD OPAMP SMT   |
| U96                                                        | UFD0-00436         | 1          | 62839       | CLC436AJE                | CLC436AJE OP AMP SMT      |
| U97                                                        | UID0-01410         | 1          | 64155       | LTC1410CS                | LTC1410CS 12 BIT A/D SMT  |
| U99                                                        | ULD0-00642         | 1          | 17856       | DG642DY                  | DG642DY SPDT SWITCH SMT   |
| U100                                                       | ULD0-00642         | 1          | 17856       | DG642DY                  | DG642DY SPDT SWITCH SMT   |
| U102                                                       | URD0-07812         | 1          | 04713       | MC78L12ACD               | MC78L12ACD .1A 12V SMT    |
| U103                                                       | URD0-07912         | 1          | 01295       | MC79L12ACD               | MC79L12ACD .1A 12V SMT    |
| U104                                                       | 30619              | 1          | 58900       | 30619                    | PROG GAL 854XC A2 U104    |
| U105                                                       | 30621              | 1          | 58900       | 30621                    | PROG GAL 854XC A2 U105    |
| U106                                                       | 30623              | 1          | 58900       | 30623                    | PROG GAL 854XC A2 U106    |
| U107                                                       | UTD0-00742         | 1          | 01295       | SN74HC74D                | 74HC74D DUAL D FFLOP SMT  |
| U108                                                       | UTD0-00742         | 1          | 01295       | SN74HC74D                | 74HC74D DUAL D FFLOP SMT  |

## Series 8540C Universal Power Meters

| <b>30173 8542C ANALOG PC ASSY, Rev. S (A2) (Continued)</b> |                    |            |             |                          |                              |
|------------------------------------------------------------|--------------------|------------|-------------|--------------------------|------------------------------|
| <b>Item</b>                                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>           |
| U109                                                       | UTD0-00742         | 1          | 01295       | SN74HC74D                | 74HC74D DUAL D FFLOP SMT     |
| U110                                                       | UTD0-40402         | 1          | 01295       | 74HC4040D                | 74HC4040D 12 BIT CT SMT      |
| U111                                                       | 30625              | 1          | 58900       | 30625                    | PROG EPROM 854XC A2 U111     |
| U112                                                       | UGD0-09501         | 1          | 24355       | AD9501JP                 | AD9501JP DELAY GEN SMT       |
| U113                                                       | UTD0-00143         | 1          | 04713       | MC74HCT14AD              | 74HCT14D HEX SCHMITT INV SMT |
| W1                                                         | JIA1-03230         | 1          | 58900       | JIA1-03230               | 3 PIN STRIPLINE PLUG         |
| XW1                                                        | 17240-001          | 1          | 27264       | 15-38-1024               | JUMPER,INSULATED,2 POS       |

| <b>21229 FRONT PANEL PCB ASSY, Rev. C (A3)</b> |                    |            |             |                          |                         |
|------------------------------------------------|--------------------|------------|-------------|--------------------------|-------------------------|
| <b>Item</b>                                    | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b>      |
| 1                                              | 21228              | 1          | 61964       | 21228                    | PCB,FR PNL              |
| 2                                              | 21230              | REF        | 58900       | 21230                    | SCHEM, FRONT PANEL      |
| 3                                              | JIA0-01443         | 39         | 58900       | JIA0-01443               | CONTACT POST            |
| 4                                              | GFU0-00801         | 0          | 53387       | 4416-1/2" WHITE          | 1/2 X 1/16 FOAM TAPE    |
| DS1                                            | IML0-00100         | 1          | 28480       | HDSP-4840                | 10 LED BAR GRAPH ARRAY  |
| DS2                                            | IML0-00100         | 1          | 28480       | HDSP-4840                | 10 LED BAR GRAPH ARRAY  |
| J1                                             | JIA0-01443         | 1          | 58900       | JIA0-01443               | CONTACT POST            |
| LS1                                            | ISP0-00001         | 1          | 72982       | PKM11-4AO                | PIEZO ALARM             |
| R1                                             | RN55-02210         | 1          | 91637       | RN55C2210F               | 221 OHMS 1% MET FILM    |
| R2                                             | RN55-02210         | 1          | 91637       | RN55C2210F               | 221 OHMS 1% MET FILM    |
| R6                                             | RN55-21000         | 1          | 53387       | RN 1/4 T2 10K 1%         | 10 K OHMS 1% MET FILM   |
| RP1                                            | RM9S-02200         | 1          | 91637       | MSP10A01221G             | 220 OHM X 9 SIP NETWORK |
| RP2                                            | RM9S-02200         | 1          | 91637       | MSP10A01221G             | 220 OHM X 9 SIP NETWORK |
| W1                                             | WJIM-07024         | 1          | 56501       | FST-6 0.75 A-10          | 10 POSITION FLEX JUMPER |

| <b>21240 LCD DISPLAY ASSY, Rev. B (A4)</b> |                    |            |             |                          |                    |
|--------------------------------------------|--------------------|------------|-------------|--------------------------|--------------------|
| <b>Item</b>                                | <b>Part Number</b> | <b>Qty</b> | <b>Cage</b> | <b>Mfr's Part Number</b> | <b>Description</b> |
| 2                                          | 30436              | 1          | —           | 30436                    | LCD CABLE ASSEMBLY |
| 5                                          | 21216              | 1          | 58900       | 21216                    | DISPLAY,LCD        |

## 7.3 List of Manufacturers

The names and addresses of manufacturers cited in the preceding parts lists are shown in Table 7-1. Each manufacturer is listed under its CAGE number (COMMERCIAL AND GOVERNMENT ENTITY), as noted in the parts lists. In a few cases, no CAGE number has been assigned.

**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                                 | Address                  | City               | State |
|-------|----------|--------------------------------------|--------------------------|--------------------|-------|
| 53387 | 3M       | 3M Electronics Products Division     | 6801 River Pl. Blvd.     | Austin             | TX    |
| 53387 | ITWPAN   | 3M Electronics Products Division     | 309 E. Crossroads Prkwy. | Bolingbrook        | IL    |
| ----- | A&J      | A&J Manufacturing Co. Inc.           | 11121 Hindry Ave.        | Los Angeles        | CA    |
| 53387 | APWELE   | APW Electronic Solutions             | 14100 Danielson St.      | Poway              | CA    |
| 53387 | ARC      | ARC Technology, Inc.                 | 11 Chestnut St.          | Amesbury           | MA    |
| ----- | ATP      | ATP Technologies, Inc.               |                          |                    |       |
| 04222 | AVX      | AVX Ceramics                         | 19th Ave. S.             | Myrtle Beach       | SC    |
| 30161 | AAVID    | Aavid                                | 1 Kool Path              | Lacona             | NH    |
| ----- | ADVPWR   | Advance Power, Inc.                  | 11035 Switzer Ave.       | Dallas             | TX    |
| 61638 | ADVANC   | Advanced Interconnections            | 5 Energy Wy.             | West Warwick       | RI    |
| 34335 | AMD      | Advanced Micro Devices               | 910 Thompson Pl.         | Sunnyvale          | CA    |
| 4U751 | ADV/SE   | Advanced Semiconductor, Inc.         | 7525 Ethel Ave., Unit G  | North Hollywood    | CA    |
| 00656 | AEROVO   | Aerovox                              | 740 Belleville Ave.      | New Bedford        | MA    |
| OH379 | AEROWA   | Aerowave Inc.                        | 344 Salem St.            | Medford            | MA    |
| 9Y422 | AIR      | Air Filtration Products Inc.         | 707 N. Main Ave.         | Tucson             | AZ    |
| 52750 | ALAN     | Alan Industries                      | 745 Greenway Dr.         | Columbus           | IN    |
| 56563 | ALATEC   | Alatec Products                      | 21123 Nordhoff St.       | Chatsworth         | CA    |
| ----- | ALCO     | Alco Electronics Products Inc.       | 1551 Osgood St.          | North Andover      | MA    |
| 0EUK7 | ALLAME   | All American Transistor Corp.        | 369 VanNess Wy.          | Torrance           | CA    |
| 01121 | ALLEN    | Allen Bradley Co.                    | 1201 S. Second St.       | Milwaukee          | WI    |
| ----- | ALLIED   | Allied Electronics, Inc.             | 2105 Lundy Ln.           | San Jose           | CA    |
| ----- | ALLSWI   | Allied Swiss Screw Products, Inc.    | 2636 Vista Pacific Dr.   | Oceanside          | CA    |
| ----- | ALLSTR   | Allstar Magnetics                    |                          |                    |       |
| ----- | ALMAGU   | Almaguer Precession Manufacturing    | 1240 Yard Ct., Bldg. J   | San Jose           | CA    |
| 17540 | ALPIND   | Alpha Industries                     | 20 Sylvan Rd.            | Woburn             | MA    |
| 92194 | ALPSEM   | Alpha Semiconductor Inc.             | 1031 Serpentine Ln.      | Pleasanton         | CA    |
| 92194 | ALPHA    | Alpha Wire Corp.                     | 711 Lidgerwood Ave.      | Elizabeth          | NJ    |
| 67183 | ALTERA   | Altera Corp.                         | 2610 Orchard Prkwy.      | San Jose           | CA    |
| 06540 | AMATOM   | Amatom Div. of New Haven Mfg. Co     | 446 Blake St.            | New Haven          | CT    |
| 99800 | DELEVA   | American Precision Ind. Delevan Div. | 270 Quaker Rd.           | East Aurora        | NY    |
| 1HY41 | AMER R   | American Relays Inc.                 | 10306 Norwalk Blvd.      | Sante Fe Springs   | CA    |
| 84411 | AM SHI   | American Shizuki Corp.               | 301 W. O St.             | Ogallaia           | NE    |
| ----- | SKYNET   | American Skynet Electronic           | 1474 Gladding Ct.        | Milpitas           | CA    |
| 29990 | ATC      | American Technical Ceramics          | 1 Norden Ln.             | Huntington Station | NY    |
| 09769 | AMP      | Amp Inc.                             | 2800 Fulling Rd.         | Harrisburg         | PA    |
| 34553 | AMPERE   | Amperex Electronics Corp.            |                          | Hauppauge          | NY    |
| 74868 | AMPHEN   | Amphenol Corp.                       | One Kennedy Ave.         | Danbury            | CT    |

## Series 8540C Universal Power Meters

**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                             | Address                     | City            | State |
|-------|----------|----------------------------------|-----------------------------|-----------------|-------|
| 24355 | ANALOG   | Analog Devices, Inc.             | 1 Technology Wy.            | Norwood         | MA    |
| 04ZM0 | APPLIE   | Applied Thin-Film Products       | 3439 Edison Wy.             | Fremont         | CA    |
| ----- | ARCO     | Arco Electronics                 | 400 Moreland Rd.            | Commack         | NY    |
| 1HYW5 | ARDIN    | Ardin Frequency Control, Inc.    | 150 Paularino Ave # 166     | Costa Mesa      | CA    |
| 51167 | ARIES    | Aries Electronics Inc.           | 62 Trenton Ave.             | Frenchtown      | NJ    |
| 61529 | AROMAT   | Aromat Corp.                     | 629 Central Ave.            | New Providence  | NJ    |
| 46467 | AROW     | Arow Fasteners Inc.              | 31012 Huntwood Ave.         | Hayward         | CA    |
| ----- | ASSOCC   | Associated Components Technology | 11576 Trask Ave.            | Garden Grove    | CA    |
| 4J995 | ASSOCS   | Associated Spring                | 401 E. Stadium Blvd.        | Ann Arbor       | MI    |
| 62277 | ATLAS    | Atlas Wire and Cable Corp.       | 133 S. Van Norman Rd.       | Montebello      | CA    |
| 1FN41 | ATMEL    | Atmel                            | 2325 Orchard Prkwy.         | San Jose        | CA    |
| 91506 | AUGAT    | Augat Inc.                       | 452 John Dietsch Blvd.      | Attleboro Falls | MA    |
| 24539 | AVANTE   | Avantek, Inc. (HP Components)    | 3175 Bowers Ave.            | Santa Clara     | CA    |
| 65517 | AYER     | Ayer Engineering                 | 1250 W. Roger Rd.           | Tucson          | AZ    |
| 21604 | BRDE00   | Brothers Electronics             | 438 S. Military Trail       | Deerfield Beach | FL    |
| 53387 | BROTHER  |                                  |                             |                 |       |
| 1E584 | BAY      | Bay Associates                   | 150 Jefferson Dr.           | Menlo Park      | CA    |
| 52683 | BAYTRO   | Baytron Co. Inc.                 | 344 Salem St.               | Medford         | MA    |
| 13150 | BEAU     | Beau Interconnect                | 4 Aviation Dr.              | Gilford         | NH    |
| 5Y491 | BECKMA   | Beckman Industrial               | 4141 Palm St.               | Fullerton       | CA    |
| 16428 | BELDEN   | Belden Corp.                     | 350 NW. 'N' St.             | Richmond        | IN    |
| 55285 | BERQUI   | Berquist Co. Inc.                | 5300 Edina Industrial Blvd. | Minneapolis     | MN    |
| 0Y1C7 | BIPOLA   | Bipolarics Inc.                  | 108 Albright Wy.            | Los Gatos       | CA    |
| 32559 | BIVAR    | Bivar Inc.                       | 4 Thomas St.                | Irvine          | CA    |
| 71034 | BLILEY   | Bliley Electric Co.              | 2545 W. Grandview Blvd.     | Erie            | PA    |
| 32997 | BOURNS   | Bourns Inc.                      | 1200 Columbia Ave.          | Riverside       | CA    |
| 57834 | BRIM     | Brim Electronics Inc.            | 120 Home Pl.                | Lodi            | NJ    |
| 21604 | BUCKEY   | Buckeye Stamping                 | 555 Marion Rd.              | Columbus        | OH    |
| 71218 | BUD      | Bud Industries                   | 4605 E. 355th St.           | Willoughby      | OH    |
| 09922 | BURNDY   | Burndy Corp.                     | 1 Richards Ave.             | Norwalk         | CT    |
| 13919 | BURR B   | Burr Brown Research Corp.        | 6730 S. Tucson Blvd.        | Tucson          | AZ    |
| ----- | BUSSMA   | Bussmann Manufacturing           | 114 Old St. Rd.             | St. Louis       | MO    |
| 0RF16 | C&D      | C&D Electronics                  | 28 Appleton St.             | Holyoke         | MA    |
| 09353 | C&K      | C&K Components                   | 57 Stanley Ave.             | Watertown       | MA    |
| 46381 | CALRAD   | California Radomes               | 364 Reed St.                | Santa Clara     | CA    |
| 53387 | CAPLUG   | Caplugs                          | 2150 Elmwood Ave.           | Buffalo         | NY    |
| 53387 | CENSEM   | Central Semi                     |                             |                 |       |
| ----  | CLIPPR   | Clipper                          |                             |                 |       |
| 53387 | COMPAS   | Compass Components               | 48502 Kato Rd.              | Fremont         | CA    |
| 53387 | CPCLAI   | CP Claire                        |                             |                 |       |
| 71450 | CTS      | CTS Corp.                        | 1201 Cumberland Ave.        | West Lafayette  | IN    |
| 16733 | CABLEW   | Cablewave Systems Inc.           | 60 Dodge Ave.               | North Haven     | CT    |

**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                               | Address                          | City                     | State |
|-------|----------|------------------------------------|----------------------------------|--------------------------|-------|
| 09CW5 | CALCHP   | Cal Chip Electronics               | 59 Steamwhistle Dr.              | Ivyland                  | PA    |
| 56427 | CALMIC   | California Micro Devices           | 215 Topaz St.                    | Milpitas                 | CA    |
| 0N0K0 | CALOGI   | Calogic Corp.                      | 237 Whitney Pl.                  | Fremont                  | CA    |
| 53387 | CAPAX    | Capax Technologies, Inc.           | 24842 Ave. Tibbitts              | Valencia                 | CA    |
| 65664 | CATAMO   | Catamount Manufacturing Inc.       | 158 Governor Dr.                 | Orange                   | MA    |
| 2J873 | CELERI   | Celeritek Inc.                     | 3236 Scot Blvd.                  | Santa Clara              | CA    |
| 51642 | CENTRE   | Centre Capacitor Inc.              | 2820 E. College Ave.             | State College            | PA    |
| 56988 | CENTRY   | Century Spring Corp.               | P.O. Box 15287, 222 E. 16th St.  | Los Angeles              | CA    |
| 01963 | CHERRY   | Cherry Electrical Products         | 3600 Sunset Ave.                 | Waukegan                 | IL    |
| 8W262 | CHOMER   | Chomerics Inc.                     | 16 Flagstone Dr.                 | Hudson                   | NY    |
| 52072 | CIR AS   | Circuit Assembly Corp.             | 18 Thomas St.                    | Irvine                   | CA    |
| ----- | CIREXX   | Cirexx Corp.                       | 3391 Keller Street               | Santa Clara              | CA    |
| 12697 | CLAROS   | Clarostat Sensors and Controls     | 12055 Rojas Dr., Ste. K          | El Paso                  | TX    |
| ----- | CODI/S   | Codi Semiconductor                 | 144 Market St.                   | Kenilworth               | NJ    |
| 02113 | COILCR   | Coilcraft Inc.                     | 1102 Silver Lake Rd.             | Cary                     | IL    |
| 0NFL0 | COILTR   | Coiltronics Inc.                   | 6000 Park of Commerce Blvd.      | Boca Raton               | FL    |
| 62839 | COMLIN   | Comlinear                          | 4800 Wheaton Dr.                 | Fort Collins             | CO    |
| ----- | COMPAR   | Compar Corp.                       | 85 Spy Ct.                       | Markham, Ontario, Canada |       |
| 55801 | COMP D   | Compensated Devices                | 166 Tremont St.                  | Melrose                  | MA    |
| 0ABX4 | COMPTE   | Comptec International LTD          | 7837 Custer School Rd.           | Custer                   | WA    |
| 18310 | CONCOR   | Concord Electronics Corp.          | 30 Great Jones St.               | New York                 | NY    |
| 08MU3 | CONDUC   | Conductive Rubber Technology, Inc. | 22125 17th Ave.                  | Bothell                  | WA    |
| 26923 | CONTRO   | Control Master Products            | 1062 Shary Cr.                   | Concord                  | CA    |
| 05245 | CORCOM   | Corcom Inc.                        | 1600 Winchester Rd.              | Libertyville             | IL    |
| 14655 | CORNEL   | Cornell Dublier Electronics        | 1605 E. Rodney French Blvd.      | New Bedford              | MA    |
| 14674 | CORNIN   | Corning Glass Works                | Houghton Pk.                     | Corning                  | NY    |
| 34808 | CUSTCO   | Custom Coils Inc.                  | 109 S. Iowa St.                  | Alcester                 | SD    |
| 65786 | CYPRES   | Cypress Semiconductor Corp.        | 3901 N. First St.                | San Jose                 | CA    |
| ----- | DCELEC   | DC Electronics                     | 1870 Little Orchard St.          | San Jose                 | CA    |
| 53387 | DCSU00   | DC Machine                         | 220 Humboldt Crt.                | Sunnyvale                | CA    |
| 53387 | DIALAC   | DialAct Corp.                      | 45979 Warm Springs Blvd., Ste. 1 | Fremont                  | CA    |
| 57032 | DADEN    | Daden Associates Inc.              | 1001 Calle Amanacer              | San Clemente             | CA    |
| 91637 | DALE     | Dale Electronics Inc.              | 1122 Twenty Third St.            | Columbus                 | NE    |
| 0B0A9 | DALLAS   | Dallas Semiconductor Corp.         | 6350 Beltwood Pkwy. S.           | Dallas                   | TX    |
| ----- | DATCIR   | Data Circuits Systems, Inc.        |                                  |                          |       |
| 50721 | DATEL    | Datel Inc.                         | 11 Cabot Blvd.                   | Mansfield                | MA    |
| 34785 | DEK      | Dek Inc.                           | 3480 Swenson Ave.                | St. Charles              | IL    |
| 0JBU8 | DELNET   | Delnetics                          | 521 Wilbur Ave.                  | Antioch                  | CA    |
| 1JB33 | DEXTER   | Dexter Corp.                       | 1 Dexter Dr.                     | Seabrook                 | NH    |
| 83330 | DIALIG   | Dialight Corp.                     | 1913 Atlantic Ave.               | Manasquan                | NJ    |
| 55153 | DIEL L   | Dielectric Laboratories            | 69 Albany St.                    | Cazenovia                | NY    |
| 18041 | DIODEI   | Diode Inc.                         | 21243 Ventura Blvd.              | Woodland Hills           | CA    |

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**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                             | Address                        | City                         | State |
|-------|----------|----------------------------------|--------------------------------|------------------------------|-------|
| 0AX52 | DITOM    | Ditom Microwave Inc.             | 1180 Coleman Ave. #103         | San Jose                     | CA    |
| 05AJ8 | DOW      | Dow Corning Corp.                | Wolverine Building             | Midland                      | MI    |
| 0JNR4 | DUPONT   | Dupont Electronics               | 825 Old Trail Rd.              | Wilmington                   | DE    |
| 2J899 | DYNAWA   | Dynawave Inc.                    | 94 Searle St.                  | Georgetown                   | MA    |
| 74970 | EFJOHN   | E. F. Johnson Co.                | 299 Johnson Ave.               | Waseca                       | MN    |
| 72825 | EBY      | EBY Co.                          | 4300 H St.                     | Philadelphia                 | PA    |
| 53387 | ECMETL   | EC Metal Plating                 | 3005 Copper Rd.                | Santa Clara                  | CA    |
| ----- | EDT      | EDT                              | 2680 Walnut Ave., Unit C       | Tustin                       | CA    |
| 05820 | WAKEFI   | EG&G Wakefield Engineering       | 60 Audubon Rd.                 | Wakefield                    | MA    |
| ----- | EL CAP   | EL Cap                           | 116 Depot Ave.                 | Elgin                        | TX    |
| 2J899 | EXCELF   | Excelfab                         | 1020 Morse Ave.                | Sunnyvale                    | CA    |
| 78553 | EATON    | Eaton Corp.                      | 1060 W. 130th St.              | Brunswick                    | OH    |
| 0GUG6 | ECLIPT   | Ecliptek                         | 18430 Bandler Cr.              | Fountain Valley              | CA    |
| 31781 | EDAC     | Edac Inc.                        | 40 Tiffeld Rd.                 | Scarborough, Ontario, Canada |       |
| 91662 | ELCO     | Elco Corp.                       | 801 Seventeenth Ave. S.        | Myrtle Beach                 | SC    |
| ----- | ELEFIL   | Electro-Films Inc.               | 111 Gilbane St.                | Warwick                      | RI    |
| ----- | EE&I     | Electronic Eyelet & Interconnect | 911 Bern Ct.                   | San Jose                     | CA    |
| 14604 | ELMWO    | Elmwood Sensors Inc.             | 500 Narragansett Pk. Dr.       | Pawtucket                    | RI    |
| 64013 | ELNA     | Elna America, Inc.               | 5770 Warland Dr.               | Cypress                      | CA    |
| 0JMR7 | EMERSO   | Emerson & Cuming                 | 61 Holton St.                  | Worburn                      | MA    |
| ----- | ENVIRO   | Enviro Tech International        | P.O. Box 5052                  | Alameda                      | CA    |
| 33246 | EPOTEK   | Epoxy Technology Inc.            | 14 Fortune Dr.                 | Billerica                    | MA    |
| 0HAF7 | EPSON    | Epson America, Inc.              | 20770 Madrona Ave.             | Torrance                     | CA    |
| 72982 | ERIE     | Erie Technological               | 645 W. Eleventh St.            | Erie                         | PA    |
| 8B808 | EVAPOR   | Evaporated Coatings, Inc.        | 2365 Maryland Rd.              | Willow Grove                 | PA    |
| 65964 | EVOX     | Evox-Rifa Inc.                   | 100 Tri-State International    | Lincolnshire                 | IL    |
| 52063 | EXAR     | Exar Integrated Systems          | 2222 Qume Dr.                  | San Jose                     | CA    |
| 53387 | FOSC00   | Force Electronics                | 477 Gianni St.                 | Santa Clara                  | CA    |
| 73734 | FED SC   | Federal Screw Products Inc.      | 3917 N. Kedzie Ave.            | Chicago                      | IL    |
| 1BH13 | FENWAL   | Fenwal Electronics Inc.          | 64 Fountain St.                | Framingham                   | MA    |
| 02114 | FERROX   | Ferroxcube/Division of Amperex   | 5083 Kings Hwy.                | Saugerties                   | NY    |
| 60204 | FLECK    | Fleck Co.                        | 3410 A St. SE.                 | Auburn                       | WA    |
| 61429 | FOX      | Fox Electronics Inc.             | 5570 Enterprise Prkwy.         | Ft. Myers                    | FL    |
| 26629 | FREQ S   | Frequency Sources, Inc.          | 15 Maple Rd.                   | Chelmsford                   | MA    |
| ----- | FUJI P   | Fujipoly                         | 365 Carnegie Ave.              |                              |       |
| 9Z397 | FUJITS   | Fujitsu Component of America     | 3320 Scott Blvd.               | Santa Clara                  | CA    |
| 0HFH6 | FUTABA   | Futaba Corp. of America          | 555 W. Victoria St.            | Compton                      | CA    |
| 14936 | GENERA   | General Instrument Corp.         | 10 Melville Pk. Rd.            | Melville                     | NY    |
| 0J9P9 | GEROME   | Gerome Manufacturing Co, Inc.    | 403 N. Main St.                | Newburg                      | OR    |
| 58900 | GIGA     | Giga-tronics Inc.                | 4650 Norris Canyon Rd.         | San Ramon                    | CA    |
| 3T059 | GILWAY   | Gilway Technical Lamps Inc.      | 800 W. Cummings Prk.           | Woburn                       | MA    |
| 1BX85 | GLOBAL   | Global Computer Supplies         | 2318 E. Del Amo Blvd., Dpt. 75 | Compton                      | CA    |

**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                               | Address                        | City             | State |
|-------|----------|------------------------------------|--------------------------------|------------------|-------|
| ----  | GOLDEN   | Golden Pacific Quality Products    | 23585 Connecticut St., #18     | Hayward          | CA    |
| 95348 | GORDOS   | Gordos Corp.                       | 1000 N. 2nd St.                | Rogers           | AZ    |
| 17217 | GORE     | Gore & Associates Inc., W.L.       | 1901 Barksdale Rd.             | Newark           | DE    |
| 81073 | GRAYHI   | Grayhill Inc.                      | 561 Hillgrove Ave.             | La Grange        | IL    |
| 2R182 | SMITH    | H.H. Smith Co.                     | 325 N. Illinois St.            | Indianapolis     | IN    |
| 63542 | HAMILT   | Hamilton Hallmark                  |                                |                  |       |
| 9Z740 | HNL      | HNL Inc.                           | 3250 Victor St., Bldg C        | Santa Clara      | CA    |
| 4F708 | HAMMON   | Hammond Manufacturing Co.          | 1690 Walden Dr.                | Buffalo          | NY    |
| 2M881 | HARRIS   | Harris Semiconductor               | 883 Sterling Rd., Ste. 8120    | Mountain View    | CA    |
| 67297 | HEROTE   | Herotek Inc.                       | 222 N. Wolfe Rd.               | Sunnyvale        | CA    |
| 28480 | HP       | Hewlett Packard Co.                | 3000 Hanover St.               | Palo Alto        | CA    |
| 28520 | HEYCO    | Heyco Molded Products              | 750 Blvd.                      | Kenilworth       | NJ    |
| 0AG18 | HIROSE   | Hirose Electric                    | 2688 W. Hills Ct.              | Simi Valley      | CA    |
| 61485 | HITACH   | Hitachi Denshi America Ltd.        | 175 Crossways Prkwy. W.        | Woodbury         | NY    |
| ----  | HITECH   | Hitech Die Casting, Inc.           | 2245 S. Vasco Rd.              | Livermore        | CA    |
| ----  | SUHNER   | Hubner Suhner Ltd.                 | Tumleinstrass 20               | Pfaffikon, Switz |       |
| 55536 | HUNTER   | Hunter Technology Corp.            | 3305 Kifer Rd.                 | Santa Clara      | CA    |
| 58558 | ICS      | ICS Electronics                    | 473 Los Coches St.             | Milpitas         | CA    |
| 32293 | INTER    | Interconnect System                | 2501 Mission St.               | Santa Cruz       | CA    |
| 4J532 | IOTECH   | IOtech, Inc.                       | 25971 Cannon Rd.               | Cleveland        | OH    |
| 71468 | ITT CA   | ITT Cannon Electric                | 666 E. Dyer Rd.                | Santa Anna       | CA    |
| 98291 | ITT SE   | ITT Cannon RF Products             | 585 E. Main St.                | New Britain      | CT    |
| 05276 | ITT PO   | ITT Pomona Electronics             | 1500 E. Ninth St.              | Pomona           | CA    |
| 31918 | ITT SH   | ITT Schadow Inc.                   | 8081 Wallace Rd.               | Eden Prairie     | MN    |
| 04426 | ITW SW   | ITW Switches                       | 6615 W. Irving Pk. Rd.         | Chicago          | IL    |
| 51705 | ICO RL   | Ico-Rally Corp.                    | 2575 E. Bayshore Rd.           | Palo Alto        | CA    |
| 0FY98 | IDAHO    | Idaho Circuit Technologies         | 401 E. 1st St.                 | Glenns Ferry     | ID    |
| 74840 | ILLCAP   | Illinois Ccpacitor Inc.            | 3757 W. Touhy Ave.             | Lincolnwood      | IL    |
| ----  | INDUIM   | Induim Corp. of America            | 1676 Lincoln Ave.              | Utica            | NY    |
| 64671 | INMET    | Inmet Corp.                        | 300 Dino Dr.                   | Ann Arbor        | MI    |
| 58202 | INNOWA   | Innowave Inc.                      | 955/975 Benecia Ave.           | Sunnyvale        | CA    |
| 9Z890 | INTCIR   | Integrated Circuit Systems         | 525 Race St.                   | San Jose         | CA    |
| 61772 | IDT      | Integrated Device Technology, Inc. | 2975 Stender Wy.               | Santa Clara      | CA    |
| 34649 | INTEL    | Intel Corp.                        | 2200 Mission College Blvd.     | Santa Clara      | CA    |
| ORMV0 | INTELL   | Intelligent Instrumentation        | 6550 S. Bay Colony Dr., MS 130 | Tucson           | AZ    |
| 5J927 | INT.TE   | Interface Technology Inc.          | 300 S. Lemon Creek Dr.         | Walnut           | CA    |
| 4S177 | IMS      | International Mfg Services         | 50 Schoolhouse Ln.             | Portsmouth       | RI    |
| 59993 | INT RE   | International Rectifier            | 233 Kansas St.                 | El Segundo       | CA    |
| 32293 | INTERS   | Intersil Inc.                      | 2450 Walsh Ave.                | Santa Clara      | CA    |
| ----  | ITEM     | Item                               | 1249 Quarry Ln., Ste. 150      | Pleasanton       | CA    |
| ----  | J&J      | J&J Electronics Inc.               | 6 Faraday                      | Irvine           | CA    |
| 0K971 | JAE      | JAE Electronics                    | 142 Technology Dr., Ste. 100   | Irvine           | CA    |

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**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                             | Address                      | City                | State |
|-------|----------|----------------------------------|------------------------------|---------------------|-------|
| 91293 | JOHANS   | Johanson Mfg. Co.                | 400 Rockway Valley Rd.       | Boonton             | NJ    |
| 30035 | JOLO I   | Jolo Industries Inc.             | 13921 Nautilus Dr.           | Garden Grove        | CA    |
| 05236 | JONATH   | Jonathan Manufacturing Co.       | 1101 S. Acacia Ave.          | Fullerton           | CA    |
| 23499 | JUDD     | Judd Wire and Cable              | 870 Los Vallecitos Rd.       | San Marcos          | CA    |
| 66126 | KDI      | KDI Precision Products           | 3975 McMann Rd.              | Cincinnati          | OH    |
| ----- | KINKOS   | KINKO'S                          |                              |                     |       |
| 08EW3 | KMW      | KMW Inc.                         | 9970 Bell Ranch Dr.          | Santa Fe Springs    | CA    |
| ----- | KOA      | KOA SPEER                        | 6801 River Pl. Blvd.         | Austin              | TX    |
| 59124 | KOASPE   | KOA Speer Electronics Inc.       | Bolivar Dr.                  | Bradford            | PA    |
| 3M918 | KANEMA   | Kanematsu-Gosho USA, Inc.        | 3335 Hope St., Ste. 2800     | Los Angeles         | CA    |
| 31433 | KEMET    | Kemet Electronics Corp.          | 2835 Kemet Wy.               | Simpsonville        | SC    |
| 75263 | KEYSTO   | Keystone Carbon Co.              | 1935 State St.               | St. Marys           | PA    |
| 91836 | KING E   | Kings Electronics                | 40 Marbledale Rd.            | Tuckahoe            | NY    |
| 62331 | KRYTAR   | Krytar Inc.                      | 1292 Anvilwood Ct.           | Sunnyvale           | CA    |
| 2P953 | LEMO     | Lemo USA Inc.                    |                              |                     |       |
| 8Z313 | LMS      | LMS Electronics                  | 34101 Monroe Rd.             | Charlotte           | NC    |
| 55261 | LSI SY   | LSI Computer Systems             | 1235 Walt Whitman Rd.        | Melville            | NY    |
| 4J674 | LEADER   | Leader Tech                      | 14100 McCormick Dr.          | Tampa               | FL    |
| 24759 | LENOX    | Lenox-Fugal Electronics Inc.     | 1071 N. Grandview Ave.       | Nogales             | AZ    |
| 24759 | LENXFU   | Lenox-Fugle International, Inc.  | P.O. Box 1448                | Nogales             | AZ    |
| 34333 | LINFIN   | LinFinity Microelectronics, Inc. | 11861 Western Ave.           | Garden Grove        | CA    |
| 64155 | LIN TE   | Linear Technology Corp.          | 1630 McCarthy Blvd.          | Milpitas            | CA    |
| 75915 | LITTLE   | Littelfuse Tracor Inc.           | 800 E. Northwest Hwy.        | Des Plaines         | IL    |
| 93459 | LUCAS    | Lucas Weinschel Inc.             | 5305 Spectrum Dr.            | Frederick           | MD    |
| 0C7W7 | MPULSE   | M-Pulse Microwave                | 576 Charcot Ave.             | San Jose            | CA    |
| 96341 | M/A CO   | M/A Com                          | 1011 Pawtucket Blvd.         | Lowell              | MA    |
| 53387 | MICR00   | Micro-Ohm Corporation            | 1088 Hamilton Rd.            | Duarte              | CA    |
| 53387 | MILL-M   | Mill-Max                         | 190 Pine Hollow Rd.          |                     | NY    |
| 2T737 | MOUSER   | Mouser Electronics               |                              |                     |       |
| 53387 | MULTIF   | Multiflex Inc.                   | 282 Browkaw Rd.              | Santa Clara         | CA    |
| 94696 | MAGCRA   | Magnecraft                       | 1910 Techny Rd.              | Northbrook          | IL    |
| 90201 | MALLOR   | Mallory Capacitor Co.            | 4760 Kentucky Ave.           | Indianapolis        | IN    |
| 0H1N5 | MARCON   | Marcon America Corp.             | 998 Forest Edge Dr.          | Vernon Hills        | IL    |
| 0UC32 | MARKI    | Marki Microwave                  | 2320 B Walsh Ave.            | Santa Clara         | CA    |
| 1ES66 | MAXIM    | Maxim Integrated Products        | 510 N. Pastoria Ave.         | Sunnyvale           | CA    |
| 00136 | MCCOY    | McCoy/Oak Frequency Control Grp. | 100 Watts St.                | Mount Holly Springs | PA    |
| 63058 | MCKENZ   | McKenzie Technology              | 44370 Old Warm Springs Blvd. | Fremont             | CA    |
| 3A054 | MCMAST   | McMaster-Carr Supply Co.         | 9630 Norwalk Blvd.           | Santa Fe Springs    | CA    |
| 65249 | MEMORY   | Memory Protection Devices Inc.   | 320 Broad Hollow Rd.         | Farmingdale         | NY    |
| 0D3V2 | MENLO    | Menlo Industries Inc.            | 44060 Old Warm Springs Blvd. | Fremont             | CA    |
| 12457 | MERRIM   | Merrimac Industries Inc.         | 41 Fairfield Pl.             | West Caldwell       | NJ    |
| 59365 | METELI   | Metelics Corp.                   | 975 Stewart Dr.              | Sunnyvale           | CA    |

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| Cage  | Supplier | Name                            | Address                       | City                | State |
|-------|----------|---------------------------------|-------------------------------|---------------------|-------|
| 0RN63 | MICRLA   | Micro Lambda, Inc.              | 4037 Clipper Ct.              | Fremont             | CA    |
| ----- | MICROC   | Micro-Chem Inc.                 |                               |                     |       |
| 00929 | MICROL   | Microlab/FXR                    | 10 Microlab Rd.               | Livingston          | NJ    |
| 54487 | MICRNE   | Micronetics                     | 26 Hampshire Dr.              | Hudson              | NH    |
| 0HFJ2 | MICPLA   | Microplastic Inc.               | 9180 Gazette Ave.             | Chatsworth          | CA    |
| 54186 | MICROP   | Micropower Systems Inc.         | 48720 Kato Rd.                | Fremont             | CA    |
| 14552 | MICRSE   | Microsemi Corp.                 | 2830 S. Fairview St.          | Santa Ana           | CA    |
| 66449 | MICROS   | Microsource Inc.                | 1269 Corporate Center Prkwy.  | Santa Rosa          | CA    |
| 6Y341 | MTI      | Microwave Technology Inc.       | 4268 Solar Wy.                | Fremont             | CA    |
| 34078 | MIDWES   | Midwest Microwave Inc.          | 6564 S. State Rd.             | Saline              | MI    |
| 0S5P0 | MILLWA   | Milliwave Technology Corp.      | 6425-C Capital Ave.           | Diamond Springs     | CA    |
| 15542 | MINI C   | Mini Circuits Laboratory        | 13 Neptune Ave.               | Brooklyn            | NY    |
| 33592 | MITEQ    | Miteq Inc.                      | 100 Davids Dr.                | Huappauge           | NY    |
| 0D2A6 | MITSUB   | Mitsubishi Electronics Inc.     | 5665 Plaza Dr.                | Cypress             | CA    |
| 27264 | MOLEX    | Molex, Inc.                     | 2222 Wellington Ct.           | Lisle               | IL    |
| 54331 | MONITO   | Monitor Products Co. Inc.       | 502 Via Del Monte             | Oceanside           | CA    |
| ----- | MOTION   | Motion Industries, Inc.         | 2705 Lafayette St.            | Santa Clara         | CA    |
| 04713 | MOT      | Motorola Semiconductor Products | 5005 E. McDowell Rd.          | Phoenix             | AZ    |
| 04713 | MOTO     | Motorola Semiconductor Products | 5005 E. McDowell Rd.          | Phoenix             | AZ    |
| 0YP31 | MULTIC   | Multicore Solders               | 1751 Jay Ell Dr.              | Richardson          | TX    |
| 72982 | MURATA   | Murata Erie N. America          | 645 W. 11th St.               | Erie                | PA    |
| 4T165 | NEC      | NEC Electronics USA Inc.        | 401 Ellis Street              | Mountain View       | CA    |
| ----- | NIC      | NIC                             |                               |                     |       |
| 0D1M6 | NMB      | NMB Technologies Inc.           | 9730 Independence Ave.        | Chatsworth          | CA    |
| 7T184 | NTE      | NTE Electronics                 | 44 Farrand St.                | Bloomfield          | NJ    |
| 60583 | NARDA    | Narda Microwave Corp.           | 11040 White Rock Rd., Ste 200 | Rancho Cordova      | CA    |
| 54516 | NATCAB   | National Cable Molding Co.      | 136 San Fernando Rd.          | Los Angeles         | CA    |
| 58377 | NATELE   | National Electronics            | 11731 Markon Dr.              | Garden Grove        | CA    |
| 64667 | NATINS   | National Instruments Corp.      | 6504 Bridge Point Prkwy.      | Austin              | TX    |
| 27014 | NATION   | National Semiconductor Corp.    | 2900 Semiconductor Dr.        | Santa Clara         | CA    |
| 04569 | NATWIR   | National Wire & Cable           | 136 San Fernando Rd.          | Los Angeles         | CA    |
| 55680 | NICHIC   | Nichicon America Corp.          | 927 E. State Prkwy.           | Schaumburg          | IL    |
| ----- | NIDEC    | Nidec                           | 152 Will Dr.                  | Canton              | MA    |
| 0LU72 | NORITA   | Noritake, Electronics Division  | 23820 Hawthorne Blvd. #100    | Torrance            | CA    |
| 3K718 | NOVATR   | Nova-Tronix Inc.                | 4781 Patrick Henry Dr.        | Santa Clara         | CA    |
| 65238 | NOVACA   | Novacap                         | 25111 Anza Dr.                | Valencia            | CA    |
| 26233 | NYLOK    | Nylok Fastener Corp.            | 1161 Sandhill Ave., Bldg. D   | Carson              | CA    |
| 72259 | NYTRON   | Nytronics Inc.                  | 475 Pk. Ave. S.               | New York            | NY    |
| 5W060 | OLANDE   | Olander Co., Inc.               | 144 Commercial St.            | Sunnyvale           | CA    |
| 61964 | OMRON    | Omron Electronics Inc.          | 1E Commerce                   | Schaumburg          | IL    |
| 12020 | OVENAI   | Ovenaire Division               | 100 Watts St.                 | Mount Holly Springs | PA    |
| 63345 | OVERLA   | Overland Products Co.           | 1867 Airport Rd.              | Fremont             | NE    |

## Series 8540C Universal Power Meters

**Table 7-1: List of Manufacturers**

| Cage  | Supplier | Name                            | Address                        | City          | State |
|-------|----------|---------------------------------|--------------------------------|---------------|-------|
| 61964 | PHASE    | PHASE II                        |                                |               |       |
| 0DJ29 | PSELEC   | PSElect                         | 520 Mercury Dr.                | Sunnyvale     | CA    |
| 0HS44 | PAC MI   | Pacific Millimeter              | 169 Linbrook Dr.               | San Diego     | CA    |
| 55387 | PAMTEC   | Pamtech                         | 4053 Calle Tesoro              | Camarillo     | CA    |
| 61058 | PANSON   | Panasonic Industrial Division   | 2 Panasonic Wy.                | Secaucus      | NJ    |
| 06383 | PANDUI   | Panduit Corp.                   | 17301 Ridgeland                | Tinley Park   | IL    |
| ----- | PAPST    | Papst Mechatronic Corp.         | Aquidneck Industrial Pk.       | Newport       | RI    |
| 53919 | PASTER   | Pasternack Enterprises          | P.O. Box 16759                 | Irvine        | CA    |
| ----- | PEGASU   | Pegasus Electronics, Inc.       | 2240 Lundy Ave.                | San Jose      | CA    |
| 46384 | PENN     | Penn Engineering and Mfg Co.    | 5190 Old Easton Rd.            | Danboro       | PA    |
| ----- | PERFOR   | Performance Semiconductor Corp. | 610 E. Weddell Dr.             | Sunnyvale     | CA    |
| 3W023 | PHILLI   | Phillips Components             | 5083 Kings Hwy.                | Saugerties    | NY    |
| 5Z179 | PLANAR   | Planar Systems Inc.             | 1400 NW. Compton Dr.           | Beaverton     | OR    |
| 82199 | POLARA   | Polarad Electronics Inc.        | 5 Delaware Dr.                 | Lake Success  | NY    |
| 60046 | POWDY    | Power Dynamics, Inc.            | 59 Lakeside Ave.               | West Orange   | NJ    |
| 60393 | PRECIS   | Precision Resistive Products    | 202 Mack Ln.                   | Mediapolis    | IA    |
| 57177 | PROMPT   | Promptus Electronic Hardware    | 520 Homestead Ave.             | Mount Vernon  | NY    |
| 53387 | QRM      | Quick Reponse Mfg. Inc.         | 793 Ames Ave.                  | Milpitas      | CA    |
| 1DN14 | QUALCO   | Qualcomm Inc.                   | 6455 Lusk Blvd.                | San Diego     | CA    |
| 56866 | QTI      | Quality Thermistor Inc.         | 2147 Centurion Pl.             | Boise         | ID    |
| ----- | RFMICR   | R.F. Micro Devices, Inc.        | 7625 Thorndike Rd.             | Greensboro    | NC    |
| 55566 | RAF EL   | RAF Electronic Hardware         | 95 Silvermine Rd.              | Seymour       | CT    |
| 53387 | RICHO    | Richo Inc.                      | 5825 N Tripp Ave.              | Chicago       | IL    |
| 53387 | RLCU00   | RLC Elect. C/O Dura             | 21710 Stevens Creek, Bldg. 240 | Cupertino     | CA    |
| 0GP12 | RADIAL   | Radiall Inc.                    | 150 Long Beach Blvd.           | Stratford     | CT    |
| 0VUE0 | RALTRO   | Raltron Electronics Corporation | 10651 NW. 19th St.             | Miami         | FL    |
| 06090 | RAYCHE   | Raychem Corp.                   | 300 Constitution Dr.           | Menlo Park    | CA    |
| 06915 | RICHCO   | Richco Plastic Co.              | 5825 N. Tripp Ave.             | Chicago       | IL    |
| 06776 | ROBINS   | Robinson Nugent Inc.            | 800 E. Eighth St.              | New Albany    | IN    |
| 34576 | ROCKWE   | Rockwell International Corp.    | 4311 Jamboree Rd.              | Newport Beach | CA    |
| 4U402 | ROEDER   | Roederstein Electronics         | 2100 W. Front St.              | Statesville   | NC    |
| 86797 | ROGAN    | Rogan Corp.                     | 3455 Woodhead Dr.              | Northbrook    | IL    |
| 65032 | ROGERS   | Rogers Corp.                    | 100 N. Dobson Rd.              | Chandler      | AZ    |
| 65940 | ROHM     | Rohm Corp.                      | 111 Pacifica                   | Irvine        | CA    |
| 82877 | ROTRON   | Rotron Inc.                     | 7 Hasbrouck Ln.                | Woodstock     | NY    |
| 98159 | RUB-CR   | Rubber Craft                    | 15627 S. Broadway              | Gardena       | CA    |
| 98159 | RUB-TE   | Rubber Teck                     | 15627 S. Broadway              | Gardena       | CA    |
| 0FB81 | SMOS     | S-MOS Systems Inc.              | 2460 N. First St.              | San Jose      | CA    |
| 31586 | SAFT     | SAFT America Inc.               | 107 Beaver Ct.                 | Cockeysville  | MD    |
| 53387 | SEI      | SEI Electronics                 | P.O. Box 58789                 | Raleigh       | NC    |
| 66958 | SGS      | SGS Thompson Microelectronics   | 1000 E. Bell Rd.               | Phoenix       | AZ    |
| 53387 | STMICR   | ST Microelectronics             |                                |               |       |

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| Cage  | Supplier | Name                             | Address                  | City            | State |
|-------|----------|----------------------------------|--------------------------|-----------------|-------|
| 53387 | SYNSEM   | Synergy Semiconductor            | 3250 Scott Blvd.         | Santa Clara     | CA    |
| 07180 | SAGE     | Sage Laboratories Inc.           | E. Natick Industrial Pk. | Natick          | MA    |
| 55322 | SAMTEC   | Samtec Inc.                      | 810 Progress Blvd.       | New Albany      | IN    |
| 96733 | SAN FE   | San Fernando Electric Mfg        | 1501 First St.           | San Fernando    | CA    |
| 62559 | SCHROF   | Schroff Inc.                     | 170 Commerce Dr.         | Warwick         | RI    |
| 70561 | SCITEQ   | Sciteq Communications, Inc.      | 9990 Mesa Rim Rd.        | San Diego       | CA    |
| 7U905 | SEASTR   | Seastrom Inc.                    | 2351 Kentucky Ave.       | Indianapolis    | IN    |
| 61394 | SEEQ     | Seeq Technology Inc.             | 47131 Bayside Prkwy.     | Fremont         | CA    |
| 59270 | SELCO    | Selco Products                   | 7580 Stage Rd.           | Buena Park      | CA    |
| 55989 | SEMICO   | Semicon Inc.                     | 8810 Frost Ave.          | St. Louis       | MO    |
| 4W070 | SHARP    | Sharp Electronics Corp.          | Sharp Plaza Blvd.        | Memphis         | TN    |
| 0B549 | SIEMEN   | Siemens Components               | 10950 N. Tantau Ave.     | Cupertino       | CA    |
| 1CY63 | SMT      | Sierra Microwave Technology Inc. | One Sierra Wy.           | Georgetown      | TX    |
| 17856 | SILICO   | Siliconix Inc.                   | 2201 Laurelwood Rd.      | Santa Clara     | CA    |
| 5L401 | SSI      | Solid State, Inc.                | 46 Farrand St.           | Bloomfield      | NJ    |
| 95077 | SOLITR   | Solitron/Vector Microwave        | 3301 Electronics Wy.     | West Palm Beach | FL    |
| 66049 | SWMICR   | Southwest Microwave              | 2922 S. Roosevelt        | Tempe           | AZ    |
| 1W232 | SPACEK   | Spacek Labs                      | 528 Santa Barbara St.    | Santa Barbara   | CA    |
| 24931 | SPECIA   | Speciality Connector Co., Inc.   | 2100 Earlywood Dr.       | Franklin        | IN    |
| 56289 | SPRAGU   | Sprague Electric Co.             | 68 Main St.              | Sanford         | ME    |
| 51791 | STATEK   | Statek Corp                      | 512 N. Main St.          | Orange          | CA    |
| 0GAA9 | STATIC   | Static Control Components        | 330 Wicker St.           | Sanford         | NC    |
| 0KA21 | STETCO   | Stetco Inc.                      | 3344 Schierhorn Ct.      | Franklin Park   | IL    |
| 57771 | STIMPS   | Stimpson Co.                     | 900 Sylvan Ave.          | Bayport         | NY    |
| 29005 | STORM    | Storm Products Co.               | 112 S. Glasglow Ave.     | Inglewood       | CA    |
| 1U930 | SUPER    | Supertex                         | 2231 Colby Ave.          | Los Angeles     | CA    |
| 63155 | SYNERG   | Synergy Microwave Corp.          | 483 McLean Blvd.         | Patterson       | NJ    |
| 54583 | TDK      | TDK of America                   | 12 Harbor Pk. Dr.        | Port Washington | NY    |
| ----  | TEMIC    | TEMIC                            |                          |                 |       |
| 2W053 | TARGET   | Target Electronics               | 715A Pastoria Ave.       | Sunnyvale       | CA    |
| 3Z990 | TECH P   | Tech Pro Inc.                    | 6243 E. US. Hwy. 98      | Panama City     | FL    |
| 52814 | TECH-E   | Tech-Etch                        | 45 Adlrin Rd.            | Plymouth        | MA    |
| 00RB0 | TECHNI   | Techni-tool                      | 1575 University Dr.      | Tempe           | AZ    |
| 15818 | TELCOM   | TelCom Semiconductor             | 1300 Terra Bella Ave.    | Mountain View   | CA    |
| 11532 | TELEDY   | Teledyne Relays                  | 12525 Daphne Ave.        | Hawthorne       | CA    |
| 15915 | EPRO     | Tepro of Florida Inc.            | 2608 Enterprise Rd.      | Clearwater      | FL    |
| 01295 | TI       | Texas Instruments                | 8505 Forrest Ln.         | Dallas          | TX    |
| 13103 | THRMLL   | Thermalloy Co, Inc.              | 2021 W. Valley View Ln.  | Dallas          | TX    |
| 58090 | THERMO   | Thermometrics                    | 808 US. Hwy. #1          | Edison          | NJ    |
| 56501 | T&B      | Thomas & Betts Corp.             | 1555 Lynnfield Rd.       | Memphis         | TN    |
| 0HHH5 | THUNDE   | Thunderline Z, Inc.              | 11 Hazel Dr.             | Hampstead       | NH    |
| OB3G8 | TOKIN    | Tokin America Inc.               | 2261 Fortune Dr.         | San Jose        | CA    |

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| Cage  | Supplier | Name                        | Address                   | City             | State |
|-------|----------|-----------------------------|---------------------------|------------------|-------|
| 06049 | TOPAZ    | Topaz Inc.                  | 1660 Scenic Ave.          | Costa Mesa       | CA    |
| 61802 | TOSHIB   | Toshiba International       | 13131 W. Little York Rd.  | Houston          | TX    |
| 82152 | TRANSC   | Transco Products Inc.       | 200 W. Los Angeles Ave.   | Simi Valley      | CA    |
| 59660 | TUSONI   | Tusonix Inc.                | 7741 N. Business Pk. Dr.  | Tucson           | AZ    |
| 53421 | TYTON    | Tyton Corp.                 | 7930 N. Faulkner Rd.      | Milwaukee        | WI    |
| 53387 | UNITED   | United Mfg. Assy.           | 42680 Christy St.         | Fremont          | CA    |
| 0TAZ2 | UNION    | Union Carbide               | 39 Old Ridgebury Rd.      | Danbury          | CT    |
| 62643 | UNCHEM   | United Chemicon Inc.        | 9806 Higgins St.          | Rosemont         | IL    |
| 52847 | USCRYS   | United States Crystal Corp. | 3605 McCart St.           | Fort Worth       | TX    |
| 3S125 | UNITRO   | Unitrode Corp.              | 5 Forbes Rd.              | Lexington        | MA    |
| 95275 | VISION   | Vision Electronics          | 1175 Spring Ctr. S BLVB   | Altamont Springs | FL    |
| 53387 | VPR      | VPR                         |                           |                  |       |
| 27802 | VECTRO   | Vectron Laboratories, Inc.  | 166 Gover Ave.            | Norwalk          | CT    |
| 95275 | VITRAM   | Vitramon Inc.               | 10 Rte. 25                | Monroe           | CT    |
| 18736 | VOLTRO   | Voltronics Corp.            | 100-10 Ford St.           | Denville         | NJ    |
| 53387 | WARDDBA  | Ward Bagby                  | 1360 Piper Dr.            | Milpitas         | CA    |
| 66579 | WAFER    | WaferScale Integration      | 47280 Kato Rd.            | Fremont          | CA    |
| 00443 | WAVELI   | Waveline Inc.               | 160 Passaic Ave.          | Fairfield        | NJ    |
| 0AN50 | WESTEC   | Westec Plastics Corp.       | 2044 Concourse Dr.        | San Jose         | CA    |
| 52840 | WEST.D   | Western Digital Corp.       | 3128 Red Hill Ave.        | Costa Mesa       | CA    |
| 16453 | WEST/M   | Western Microwave Inc.      | 495 Mercury Dr.           | Sunnyvale        | CA    |
| 20944 | WILTRO   | Wiltron Co.                 | 685 Jarvis Dr., Ste. F    | Morgan Hill      | CA    |
| 68919 | WIMA     | Wima (Intertechnical Group) | 2269 Saw Mill River Rd.   | Elmsford         | NY    |
| 60395 | XICOR    | Xicor Inc.                  | 1151 Buckeye Dr.          | Milpitas         | CA    |
| 68994 | XILINX   | Xilinx Inc.                 | 2100 Logic Dr.            | San Jose         | CA    |
| 58758 | ZAMBRE   | Zambre Co.                  | 2134M Old Middlefield Wy. | Mountain View    | CA    |
| 79963 | ZIERIC   | Zierick Manufacturing Co.   | Radio Cr.                 | Mt. Kisco        | NY    |
| ----- | ZOLTAR   | Zoltar Engineering, LLC     | 32 Galli Dr., Ste. A      | Novato           | CA    |