

# M3500-0204 (200-400 MHz)

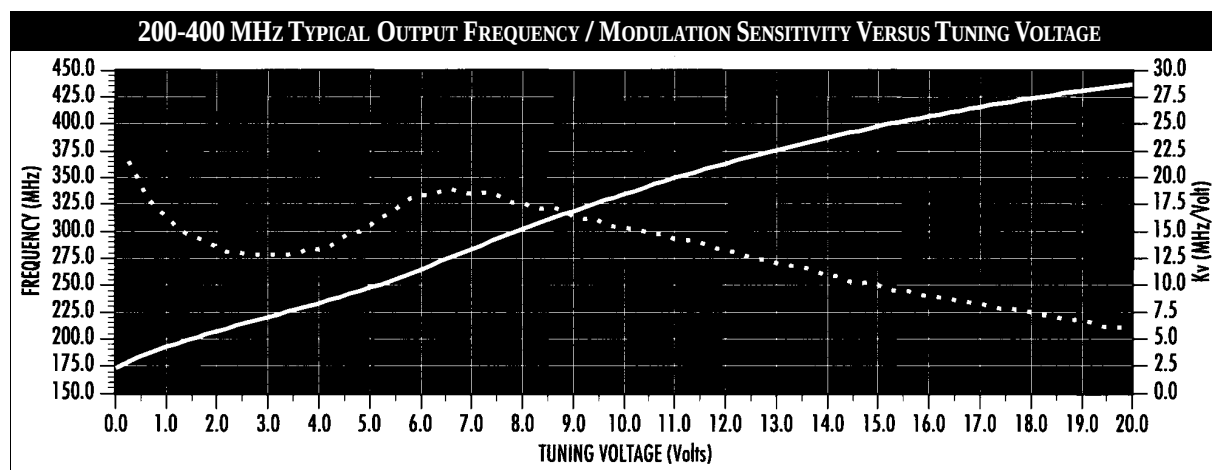
## 1C. M3500-0204 VCO TECHNICAL SPECIFICATIONS

| ABSOLUTE MAXIMUM / MINIMUM RATINGS |        |
|------------------------------------|--------|
| PARAMETER                          | RATING |
| Maximum Supply Voltage             | +14.5V |
| Tuning Voltage Min/Max             | 0/20V  |

| GUARANTEED PERFORMANCE (0-70° C) |                              |
|----------------------------------|------------------------------|
| PARAMETER                        | DATA                         |
| Power Dissipation                | 420 mW max<br>(35 mA @ +12V) |
| Frequency Tuning Range           | 200 to 400 MHz min           |
| Power Output (50W)               | 10 dBm min                   |

| TYPICAL PERFORMANCE (0-70° C)        |                          |
|--------------------------------------|--------------------------|
| PARAMETER                            | DATA                     |
| Nominal Supply Voltage               | +12V                     |
| Power Output (50W)                   | +12.5 dBm                |
| Typical Current                      | 26mA                     |
| Tuning Voltage                       | 1.6-15.4V                |
| FM(Phase)Noise:                      | 1 kHz Offset             |
|                                      | 10 kHz Offset            |
|                                      | 100 kHz Offset           |
|                                      | 1 MHz Offset             |
| Frequency Pushing                    | 0.3 MHz/V for 12 ± 1V    |
| Frequency Pulling (12dB Return Loss) | 5 MHz peak-peak          |
| Harmonic Spurious (Average)          | -4.5 dBc                 |
| Tuning Port Bandwidth:               | @ Tuning Voltage = 1.8 V |
|                                      | @ Tuning Voltage = 6.8V  |
|                                      | @ Tuning Voltage = 13.0V |

## 2C. PERFORMANCE CURVES FOR M3500-0204



FREQUENCY ————— Kv ········

