

Low Noise (Voltage Noise En <20nV/rtHz)

Part Number	en Typ (nV/ Hz)	in Typ pA/ Hz	Vos Max 25°C (µV)	GBW Typ 25°C MHz	Slew Min 0-70°C (V/µs)	ISUPPLY Max/Amp mA	Supply Voltage Min V	Voltage Max V	Rail to Rail I/O ⁽¹⁾	Packaging	C-Load Stable (pF)	Price 1K Qty	Important Features
Singles													
LT1028A	0.85	1	40	50	11	10	8	44		N8	500	\$7.20	Ultralow Noise, High Speed, Precision, Low Drift
LT1128A	0.85	1	40	20	5	10	8	44		N8	600	\$7.20	Lowest Noise, High Speed - Ultralow Noise, Precision
LT1028	0.9	1	80	50	11	10	8	44		N8/S8/SW16	500	\$4.75	Ultralow Noise, High Speed, Precision, Low Drift
LT1128	0.9	1	80	20	4.5	10	8	44		N8/S8	600	\$4.75	Lowest Noise, High Speed - Ultralow Noise, Precision
LT1115	0.9	1.2	280	40	10	11.5	8	44		N8/SW16		\$2.90	Lowest Noise, Ultralow Distortion
LT6200	0.95	2.2	1000	165	31	23	2.5	12.6	yes	S8/S6		\$2.15	Lowest Noise with Rail-to-Rail I/O with shutdown
LT6202	1.9	0.75	500	100	18	3	2.5	12.6	yes	S8/S5		\$1.45	Low Power and Ultralow Noise
LT1007	2.5	0.4	60	5	1.7	4.7	8	44		SW16/S8/N8		\$1.90	Extremely Low Noise
LT1037	2.5	0.4	60	45	11	4.7	8	44		N8/S8/SW16		\$1.90	Extremely Low Noise - Av=5, Low Noise, Precision
LT1037A	2.5	0.4	25	45	11	4	8	44		N8		\$4.80	Extremely Low Noise - Av=5, Low Noise, Precision
LT1226	2.6	1.5	1000	1000	250	9	5	36		N8/S8	all	\$2.85	High Speed, Unlimited C-Load
LT1222	3	2	300	500	150	10.5	30	36		N8/S8	all	\$3.40	High Speed, Good DC spec, C-Load Driving, Comp pin
LT1806	3	2	300	325	100	14	2.5	12.6	yes	S6/S8		\$2.10	High Speed, low Noise, DC Precision, Rail-to-Rail IO
LT1252	3	0.6/30	15000	100	250	18	4	28		N8/S8		\$1.70	Low Cost, High Voltage, Video Amp
LT1210	3	2.0/40	15000	35	900	50	10	36		S16/T7/R7	1000	\$6.40	1.1A Ouptut CFA with S/D
LT1227	3.2	1.7/32	10000	140	500	15	7	36		N8/S8	2000	\$2.40	CFA
LT1223	3.3	2.2	3000	100	800	10	30	36		N8/S8	1500	\$2.85	CFA
LT1206	3.6	2.0/30	10000	60	400	30	10	36		N8/S8/T7/R7	10000	\$3.40	250mA Output CFA with S/D
LT1722	3.8	1.2	600	200	35	4.5	4	12.6		S8/S5	100	\$1.30	Low Noise, Precision
LT1792	4.2	0.01	600	4	2.1	5.3	9	40		N8/S8	1000	\$2.25	JFET input, C-Load stable to 1nF
LT1792A	4.2	0.01	800	4	2.1	5.3	9	40		N8/S8	1000	\$3.35	JFET input, C-Load stable to 1nF
LT1007A	4.5	1.5	25	5	1.7	4	8	44		N8		\$4.80	Extremely Low Noise
LT1677	4.5	1.5	60	5	1.7	4	2.7	44	yes	N8/S8	1000	\$4.80	Ultralow Noise, Rail-to-Rail IO

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Singles (Continued)													
LT1395	4.5	6.0/25	10000	400	500	6.5	4	12		S5/S6/S8	1000	\$2.25	0.1dB Gain Flatness to 100MHz
LT1468	5	0.6	75	90	15	5	9	30		N8/S8	100	\$2.95	16-Bit accuracy, 760ns to 0.01%
LT1469	5	0.6	75	90	15	5	9	30		N8/S8	100	\$2.95	16-Bit accuracy, 760ns to 0.01%
LT1793A	6	0.0008	800	4.5	2.1	5.2	9	40		N8/S8	1000	\$3.35	JFET input, C-Load stable to 1nF
LT1793	6	0.001	2700	4.5	2.1	5.2	9	40		N8/S8	1000	\$2.25	JFET input, C-Load stable to 1nF
LT1818	6	1.2	1500	400	900	10	4	12.6		S8	20	\$1.50	Very high speed
LT1815	6	1.3	1500	220	750	7	4	12.6		S8/S6/S5	100	\$1.75	S6 version features programmable supply current
LT1228	6	1.4	10000	100	300	11	4	36		N8/S8	2000	\$3.75	Electronic DC Gain Control
LT1221	6	2	600	150	200	10.5	30	36		N8/S8	all	\$3.30	High Speed, Good DC spec, C-Load Driving
LT1217	6.5	0.7/9	3000	10	100	2	10	36		N8/S8	1000	\$3.20	Low Power CFA
LT1225	7.5	1.5	1000	150	250	9	5	36		N8/S8	all	\$2.85	High Speed, Unlimited C-Load
LT1357	8	0.8	600	25	300	2.5	4	36		N8/S8	all	\$2.45	Stable with any C-Load
LT1812	8	1	1500	100	200	3.6	4	12.6		SOT	1000	\$1.15	General purpose High Speed
LT1800	8.5	1.4	350	80	11	2	2.3	12.6	yes	S8/S5		\$1.30	Low Power RRIO Applications
LT1360	9	0.9	1000	50	600	5	4	36		N8/S8	all	\$2.20	Stable with any C-Load
LT1363	9	1	1500	70	750	7.5	4	36		N8/S8	all	\$2.40	Stable with any C-Load
LT1192	9	4	2500	350	325	38	5	18		N8/S8		\$1.70	±5V Supply Color Video
LT1001A	9.6	0.11	25	0.8	0.15	2.5	6	44		N8		\$3.25	General purpose, High Precision Amplifier
LT1001	9.8	0.11	60	0.8	0.15	2.7	6	44		N8/S8		\$1.65	General purpose, High Precision Amplifier
LT1354	10	0.6	800	12	200	1.2	4	36		N8/S8	all	\$2.30	Stable with any C-Load
LT1880	13	0.07	150	1.1	0.2	2.3	2.7	40	out	S5	600	\$1.75	Pico Amp Bias Current, precision
LT1097	14	0.008	50	0.7	0.1	0.56	2.4	40		N8	10000	\$1.75	Low Cost, C-Load Stable
LT1097S8	14	0.008	60	0.7	0.1	0.56	2.4	40		S8	10000	\$1.90	Low Cost, C-Load Stable
LT1008	14	0.02	120	0.75	0.1	0.6	4	40		N8/S8		\$2.95	Low Bias Current
LT1012A	14	0.02	25	0.75	0.1	0.6	2.4	40		N8	C	\$3.85	Low Vos, Stable with any C-Load
LT1012C	14	0.02	50	0.75	0.1	0.6	2.4	40		N8	C	\$2.65	Low Vos, Stable with any C-Load
LT1012D	14	0.02	60	0.75	0.1	0.6	2.4	40		N8	C	\$1.60	Low Vos, Stable with any C-Load
LT1012S8	14	0.02	120	0.75	0.1	0.6	4	40		S8	C	\$3.30	Low Vos, Stable with any C-Load
LT1351	14	0.5	600	3	120	0.3	4	36		N8/S8/MS8	all	\$2.45	Stable with any C-Load
LT1022	15	0.0018	1000	8	18	7	20	40		N8		\$2.80	Hiigh Speed, JFET input
LT1055N8	15	0.0018	700	5	7.5	4	20	40		N8		\$1.90	Low Offset, JFET input
LT1056N8	15	0.0018	800	5	9	7	20	40		N8		\$1.90	Low Offset, JFET input
LT1055S8	15	0.0025	1500	5	7.5	4	20	40		S8		\$2.35	Low Offset, JFET input
LT1056S8	15	0.0025	1500	5	9	7	20	40		S8		\$2.35	Low Offset, JFET input
LT1970	15	3	600	3.6	1.6 Typ	13	5	36		FE20	2500	\$4.95	Programmable/adjustable current limits. Iout up to 500mA
Duals													
LT6201	0.95	2.2	1000	165	31	23	2.5	12.6	yes	S8/MS8		tbd	Lowest Noise with Rail-to-Rail I/O Dual
LT6203	1.9	0.75	500	100	18	3	2.5	12.6	yes	S8/MS8		\$2.45	Low Power and Ultralow Noise
LT1124	2.7	0.3	100	12.5	2.7	2.75	8	44		N8/S8		\$3.50	Low Noise, High Speed - Low Noise, Precision
LT1124A	2.7	0.3	70	12.5	3	2.75	8	44		N8/S8		\$4.25	Low Noise, High Speed
LT1126	2.7	0.3	100	65	8	3.1	8	44		N8/S8		\$3.50	Low Noise, High Speed - Av=10, Low Noise, Precision
LT1126A	2.7	0.3	70	65	8	3.1	8	44		N8		\$4.25	Low Noise, High Speed - Av=10, Low Noise, Precision
LT1807	3	2	300	325	100	14	2.5	12.6	yes	S8/MS8		\$3.40	High Speed, Low Noise, DC precision, Rail-to-Rail IO
LT1253	3	0.6/30	15000	90	250	11	4	28		N8/S8		\$2.45	Low Cost, High Voltage, Video Amp
LT1497	3	2.0/20	10000	50	900	7	5	36		S16/S8	2000	\$3.35	125mA Output, CFA
LT1795	3.6	2/30	13000	50	400	34	10	36		FE20/SW20	10000	\$4.95	ADSL driver

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Duals (Continued)													
LT1259	3.6	1.3/45	10000	130	900	7.5	5	36		N14/S14	1000	\$2.45	Low Cost high voltage CFA
LT1207	3.6	2.0/30	10000	60	400	30	10	36		S16	10000	\$6.90	High output current CFA with S/D
LT1723	3.8	1.2	400	200	35	4.5	4	12.6		S8/MS8	100	\$2.15	Low Noise, Precision
LT1886	4	0.7	4000	700	110	8.25	4	13.2		S8	100	\$2.80	CPE xDSL Line Driver
LT1969	4	0.7	4000	700	110	8.25	4	13.2		MS10	100	\$2.50	CPE xDSL Line Driver with 2 bit power control
LT1113	4.5	0.01	1800	6.3	1.9	6.5	9	40		N8/S8	1000	\$3.15	Low Noise and low offset, JFET input
LT1113A	4.5	0.01	1500	6.3	2.3	6.5	9	40		N8	1000	\$3.15	Low Noise and low offset, JFET input
LT1396	4.5	6.0/25	10000	400	500	6.5	4	12		S8/MS8	1000	\$2.25	0.1dB Gain Flatness to 100MHz
LT1398	4.5	6.0/25	10000	300	500	6.5	4	12		S16	1000	\$2.25	0.1dB Gain Flatness to 150MHz Video amp
LT1169	6	0.001	2000	5.3	1.9	6.5	9	40		N8/S8	1000	\$3.85	Low Noise, Pico Amp Bias, JFET input
LT1630	6	0.9	525	15	4.6	2.2	2.7	36	yes	N8/S8	300	\$2.95	Low Distortion, high speed, Rail-to-Rail IO
LT1819	6	1.2	1500	400	900	10	4	12.6		S8	20	\$2.80	Very high speed
LT1816	6	1.3	1500	220	750	7	4	12.6		S8/MS8/MS10	100	\$2.75	Very high speed, MS10 features programmable supply current
LT1229	6	1.4/8	10000	100	300	9.5	4	36		N8/S8	2000	\$3.75	CFA
LT1358	8	0.8	600	25	300	2.5	4	36		N8/S8	all	\$3.90	Stable with any C-Load
LT1739	8	0.8	5000	200	300	10	10	27		FE20/UE12		\$3.55	Low Power, Low Cost ADSL driver with 2 bit power control
LT1794	8	0.8	5000	200	300	10	10	36		FE20/SW20		\$4.95	Low Power ADSL driver with 2 bit power control
LT6300	8	0.8	5000	200	300	10	10	27		GN16		\$2.85	Low output power ADSL driver with 2 bit power control
LT1813	8	1	1500	85	200	3.6	4	12.6		S8	1000	\$1.75	General purpose high speed
LT1801	8.5	1.4	350	80	11	2	2.3	12.6	yes	S8/MS8		\$1.95	Low Power RRIO Applications
LT1884	9	0.04	50	2.2	0.3	0.9	2.7	44	out	S8		\$2.75	Pico Amp Bias Current, Precision
LT1361	9	0.9	1000	50	600	5	4	36		N8/S8	all	\$3.40	Stable with any C-Load
LT1364	9	1	1500	70	750	7.5	4	36		N8/S8	all	\$3.70	Stable with any C-Load
LT1002A	9.6	0.11	60	0.8	0.15	2.5	6	44		N14		\$6.10	Matched High CMRR, PSRR Matching
LT1002	9.8	0.11	100	0.8	0.15	2.8	6	44		N14		\$2.85	Matched High CMRR, PSRR Matching
LT1213	10	0.2	650	26	10	4	5	36	s s	N8/S8	200	\$2.85	Fast with high precision
LT1213A	10	0.2	425	26	10	4	5	36	s s	N8	200	\$4.60	Fast with high precision
LT1355	10	0.6	800	12	200	1.25	4	36		N8/S8	all	\$3.80	Stable with any C-Load
LT1211	12	0.2	375	14	5	2.1	5	36	s s	N8/S8	400	\$2.85	Fast with high precision
LT1211A	12	0.2	175	14	5	2.1	5	36	s s	N8	400	\$4.60	Fast with high precision
LT1498	12	0.3	475	6.8	2.6	2.2	2.2	30	yes	N8/S8	10000	\$2.95	Stable with any C-Load
LT1632	12	1.6	1350	45	13	5.2	2.7	36	yes	N8/S8	250	\$3.05	Low Distortion, high speed, Rail-to-Rail IO
LT1215	12.5	0.5	550	23	40	7.6	5	36	s s	N8/S8	1000	\$2.85	Fast with high precision
LT1215A	12.5	0.5	350	23	40	7.6	5	36	s s	N8	1000	\$5.35	Fast with high precision
LT1057A	13	0.0015	450	3	10	2.5	20	40		N8		\$4.75	High Speed, JFET input
LT1457A	13	0.0015	450	1.7	2	3	9	40		N8	10000	\$4.60	JFET with excellent C-Load stability
LT1057	14	0.0018	800	3	8	2.8	20	40		N8/S8		\$4.95	High Speed, JFET input
LT1457	14	0.0018	800	1.7	2	3	9	40		N8/S8	10000	\$2.35	JFET with excellent C-Load stability
LT1112	14	0.008	75	0.75	0.16	0.45	2	40		S8	1000000	\$2.35	Low Power, Matching Specs, Stable with any C-Load
LT1112A	14	0.008	60	0.75	0.16	0.4	2	40		N8	1000000	\$3.40	Low Power, Matching Specs, Stable with any C-Load
LT1024	14	0.02	100	0.75	0.1	0.7	4	40		N8		\$4.75	Low Vos, Low Power, Matching Specs
LT1024A	14	0.02	50	0.75	0.1	0.5	4	40		N8		\$6.65	Low Vos, Low Power, Matching Specs
LT1881	14	0.03	80	1	0.12	0.9	2.7	40	out	N8/S8	1000	\$2.75	Pico Amp Bias Current, Precision
LT1881A	14	0.03	50	1	0.12	0.9	2.7	40	out	N8/S8	1000	\$3.75	Pico Amp Bias Current, Precision
LT1352	14	0.5	600	3	120	0.32	4	36		N8/S8	all	\$3.80	Stable with any C-Load

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Triples													
LT1260	3.6	1.3/45	10000	130	900	7.5	5	36		N16/S16	1000	\$2.60	Low Cost high voltage CFA
LT1399	4.5	6.0/25	10000	300	500	6.5	4	13.5		S16	1000	\$2.45	0.1dB Gain Flatness to 150MHz Video amp
LT6550	tbd			90	300	10	3	12.6	out	MS10		\$1.75	3V RGB Driver with fixed voltage gain of 2
Quads													
LT6204	1.9	0.75	500	100	18	3	2.5	12.6	yes	S14/G16		\$4.50	Low Power and Ultralow Noise
LT1125	2.7	0.3	140	12.5	2.7	2.75	8	44		N14/SW16		\$5.70	Low Noise, High Speed - Low Noise, Precision
LT1125A	2.7	0.3	90	12.5	3	2.75	8	44		N14		\$7.15	Low Noise, High Speed - Low Noise, Precision
LT1127	2.7	0.3	140	45	8	3.1	8	44		N14/SW16		\$5.70	Low Noise, High Speed - Av=10, Low Noise, Precision
LT1127A	2.7	0.3	90	45	8	3.1	8	44		N14		\$7.15	Low Noise, High Speed - Av=10, Low Noise, Precision
LT1254	3	0.6/30	15000	90	250	11	4	28		N14/S14		\$4.40	Low Cost, High Voltage, Video Amp
LT1724	3.8	1.2	400	200	35	4.5	4	12.6		S14	100	\$3.95	Low Noise, Precision
LT1397	4.5	6.0/25	10000	400	500	6.5	4	12		S14/GN16	1000	\$2.25	0.1dB Gain Flatness to 100MHz
LT1631	6	0.9	525	30	4.6	2.2	2.7	36	yes	S14	300	\$5.60	Low Distortion, high speed, Rail-to-Rail IO
LT1817	6	1.3	1500	220	750	7	4	12.6		S14/GN16	100	\$4.35	Very high speed
LT1230	6	1.4/8	10000	100	300	9.5	4	36		N14/S14	2000	\$7.00	CFA
LT1359	8	0.8	600	25	300	2.5	4	36		N14/S16	all	\$6.50	Stable with any C-Load
LT6301	8	0.8	5000	200	300	10	10	27		FE28		\$6.30	Low Power, Low Cost Dual ADSL driver with 2 bit power control
LT1814	8	1	1500	85	200	3.6	4	12.6		S14, GN16	1000	\$3.30	General purpose high speed
LT1802	8.5	1.4	350	80	11	2	2.3	12.6	yes	S14		\$3.50	Low Power RRIO Applications
LT1885	9	0.04	80	2.2	0.3	0.9	2.7	44	out	S14		\$4.85	Pico Amp Bias Current, Precision
LT1362	9	0.9	1000	50	600	5	4	36		N14/S16	all	\$6.00	Stable with any C-Load
LT1365	9	1	1500	70	750	7.5	4	36		N14/S16	all	\$6.45	Stable with any C-Load
LT1214	10	0.2	650	26	10	4	5	36	s s	N14/S16	200	\$5.10	Fast with high precision
LT1356	10	0.6	800	12	200	1.25	4	36		N14/S16	all	\$6.45	Stable with any C-Load
LT1212	12	0.2	375	14	5	2.1	5	36	s s	N14/S16	400	\$5.10	Fast with high precision
LT1499	12	0.3	475	6.8	2.6	2.2	2.2	30	yes	S14	10000	\$5.60	Stable with any C-Load
LT1633	12	1.6	1350	45	13	5.2	2.7	36	yes	S14	250	\$5.70	Low Distortion, high speed, Rail-to-Rail IO
LT1216	12.5	0.5	550	23	40	7.6	5	36	s s	N14/S16	1000	\$5.10	Fast with high precision
LT1058A	13	0.0015	600	5	10	2.8	20	40		N14		\$9.15	Low Offset JFET input
LT1058	14	0.0018	1000	5	8	2.8	20	40		N14/SW16		\$4.20	Low Offset JFET input
LT1114A	14	0.008	60	0.75	0.16	0.4	2	40		N14	1000000	\$6.40	Low Power, Matching Specs
LT1114	14	0.02	75	0.75	0.16	0.45	2	40		N14/S16	1000000	\$4.40	Low Power, Matching Specs
LT1882	14	0.03	80	1	0.12	0.9	2.7	40	out	S14	1000	\$4.85	Pico Amp Bias Current, Precision
LT1353	14	0.5	600	3	120	0.32	4	36		S14	all	\$6.70	Stable with any C-Load
LT6551	tbd			90	300	10	3	12.6	out	MS10		\$1.95	3V RGB+Sync Driver with fixed voltage gain of 2

Low Noise (Voltage Noise $E_n < 20\text{nV}/\text{rtHz}$)

Notes: [Author - former notes - keep?]

1. Rail-to-Rail I/O Yes = Input Common Mode range includes both Supply Rails and the Output swings to both Supply Rails
 OUT = Output swings to the Rails
 SS = Input Common Mode range includes Negative Supply Rail