

## Amplifiers



Coaxial

### Broadband Low Noise Small Signal Amplifiers 0.3 to 18GHz

P/N	Freq. Range (GHz)	Gain (dB)		Noise Figure (dB) Max	Pout@1dB (dBm) Min	Flatness (dB) Max	IP <sub>3</sub> (dBm) Typ	VSWR Max	Current +12V (mA) Typ	Case
		Min	Max							
LA0301N3620	0.3 - 1	32	39	2	10	± 1.5	20	2:1	300	3I
LA0510N1610	0.5 - 1	14	18	3.0	10	± 0.5	20	2:1	120	SI,2MH
LA0510N3210	0.5 - 1	29	35	3.0	10	± 1.0	20	2:1	200	4I,3MH
LA0510N1614	0.5 - 1	14	18	3.0	14	± 0.5	20	2:1	120	2I,2MH
LA0510N3214	0.5 - 1	29	35	3.0	14	± 1.0	20	2:1	200	4I,3MH
LA0520N1610	0.5 - 2	14	18	3.0	10	± 1.0	20	2:1	120	2I,2MH
LA0520N3210	0.5 - 2	29	35	3.0	10	± 1.4	20	2:1	200	4I,3MH
LA0520N1614	0.5 - 2	14	18	3.0	14	± 1.0	20	2:1	120	2I,2MH
LA0520N3214	0.5 - 2	29	35	3.0	14	± 1.4	20	2:1	200	4I,3MH
LA1020N1610	1 - 2	14	18	3.0	10	± 0.8	20	2:1	120	2I,2MH
LA1020N3214	1 - 2	29	35	3.0	14	± 1.4	20	2:1	200	4I,3MH
LA2040N1409	2 - 4	12	17	3.5	9	± 1.3	20	2:1	150	2I,2MH
LA2040N2109	2 - 4	19	24	3.0	9	± 1.0	20	2:1	150	4I,3MH
LA2040N2810	2 - 4	25	31	3.0	10	± 1.3	20	2:1	150	4I,4MH
LA2040N3510	2 - 4	32	39	3.5	10	± 1.5	25	2:1	200	6I,6MH
LA2040N4210	2 - 4	38	46	3.5	10	± 1.5	25	2:1	300	6I,6MH
LA2040N1813	2 - 4	15	21	3.8	13	± 1.3	20	2:1	150	2I,2MH
LA2040N2113	2 - 4	19	24	3.0	13	± 1.0	20	2:1	150	4I,3MH
LA2040N2815	2 - 4	25	31	3.0	15	± 1.3	20	2:1	150	4I,4MH
LA2040N3515	2 - 4	32	39	3.5	15	± 1.5	25	2:1	200	6I,6MH
LA2040N4215	2 - 4	38	46	3.5	15	± 1.5	25	2:1	300	6I,6MH
LA2080N1409	2 - 8	11	17	3.5	9	± 1.5	20	2:1	150	2I,2MH
LA2080N2109	2 - 8	18	24	3.5	9	± 1.5	20	2:1	150	4I,3MH
LA2080N2910	2 - 8	26	33	3.0	10	± 1.5	20	2:1	250	4I,4MH
LA2080N3910	2 - 8	34	45	3.5	10	± 1.8	25	2:1	300	6I,6MH
LA2080N4210	2 - 8	38	46	3.5	10	± 2.0	25	2:1	300	6I,6MH
LA2080N1813	2 - 8	15	21	4.0	13	± 1.5	20	2:1	150	2I,2MH
LA2080N2113	2 - 8	18	24	3.5	13	± 1.5	20	2:1	250	4I,3MH
LA2080N2915	2 - 8	26	33	3.0	15	± 1.5	20	2:1	250	4I,4MH
LA2080N3915	2 - 8	34	45	3.5	15	± 1.8	25	2:1	300	6I,6MH
LA2080N4215	2 - 8	38	46	3.5	15	± 2.0	25	2:1	350	6I,6MH
LA1018N2409	1 - 18	21	28	4.5	9	± 2.0	18	2.2:1	200	4I,4MH
LA1018N3209	1 - 18	28	36	4.5	9	± 2.2	18	2.2:1	250	6I,6MH
LA1018N4009	1 - 18	36	45	5.0	9	± 2.5	18	2.5:1	350	6I,6MH
LA1018N2414	1 - 18	21	28	5.0	14	± 2.0	23	2.2:1	280	4I,4MH
LA1018N3214	1 - 18	28	36	5.0	14	± 2.2	23	2.2:1	300	6I,6MH
LA1018N4014	1 - 18	36	45	5.5	14	± 2.5	23	2.5:1	400	6I,6MH
LA2018N1809	2 - 18	15	21	4.5	9	± 2.2	18	2.2:1	180	4I,3MH
LA2018N2409	2 - 18	21	28	4.5	9	± 2.0	18	2.2:1	200	4I,4MH
LA2018N3209	2 - 18	28	36	4.5	9	± 2.2	18	2.2:1	250	6I,6MH
LA2018N4009	2 - 18	36	45	5.0	9	± 2.5	18	2.5:1	350	6I,6MH
LA2018N1814	2 - 18	15	21	6.5	14	± 2.2	23	2.2:1	250	4I,3MH

## Amplifiers



Coaxial

### Broadband Low Noise Small Signal Amplifiers 0.3 to 18GHz

Continued

P/N	Freq. Range (GHz)	Gain (dB)		Noise Figure (dB)	Pout@1dB (dBm)	Flatness (dB)	IP <sub>3</sub> (dBm)	VSWR	Current +12V (mA)	Case
		Min	Max	Max	Min	Max	Typ	Max	Typ	
LA2018N2414	2 - 18	21	28	5.0	14	± 2.0	23	2.2:1	280	4I,4MH
LA2018N3214	2 - 18	28	36	5.0	14	± 2.2	23	2.2:1	300	6I,6MH
LA2018N4014	2 - 18	36	45	5.5	14	± 2.5	23	2.5:1	400	6I,6MH
LA4080N1709	4 - 8	14	20	3.5	9	± 1.3	20	2:1	150	2I,2MH
LA4080N2109	4 - 8	18	24	3.0	9	± 1.3	20	2:1	150	4I,3MH
LA4080N2810A	4 - 8	25	31	3.0	10	± 1.3	20	2:1	250	4I,4MH
LA4080N3510A	4 - 8	32	39	3.5	10	± 1.5	25	2:1	250	6I,6MH
LA4080N4210A	4 - 8	38	46	3.5	10	± 1.8	25	2:1	350	6I,6MH
LA4080N2810B	4 - 8	25	31	2.0	10	± 1.3	20	2:1	250	4I,4MH
LA4080N3510B	4 - 8	32	39	2.0	10	± 1.5	25	2:1	250	6I,6MH
LA4080N4210B	4 - 8	38	46	2.0	10	± 1.8	25	2:1	350	6I,6MH
LA4080N1713	4 - 8	14	20	3.5	13	± 1.3	20	2:1	150	4I,4MH
LA4080N2113A	4 - 8	18	24	3.0	13	± 1.3	20	2:1	150	4I,3MH
LA4080N2815A	4 - 8	25	31	3.0	15	± 1.3	20	2:1	250	4I,4MH
LA4080N3515A	4 - 8	32	39	3.0	15	± 1.5	25	2:1	300	6I,6MH
LA4080N4215A	4 - 8	38	46	3.5	15	± 1.8	25	2:1	350	6I,6MH
LA4080N2113B	4 - 8	18	24	2.0	13	± 1.3	20	2:1	150	4I,3MH
LA4080N2815B	4 - 8	25	31	2.0	15	± 1.3	20	2:1	250	4I,4MH
LA4080N3515B	4 - 8	32	39	2.0	15	± 1.5	25	2:1	300	6I,6MH
LA4080N4215B	4 - 8	38	46	2.0	15	± 1.8	25	2:1	350	6I,6MH
LA6018N1409	6 - 18	11	17	4.0	9	± 1.8	20	2:1	180	2I,2MH
LA6018N2109	6 - 18	18	24	3.5	9	± 1.5	20	2:1	180	4I,3MH
LA6018N2810	6 - 18	25	32	3.0	10	± 1.5	20	2:1	280	4I,4MH
LA6018N3510	6 - 18	31	39	3.5	10	± 1.8	25	2:1	350	6I,6MH
LA6018N4210	6 - 18	38	46	3.5	10	± 1.8	25	2:1	380	8I,46
LA6018N4910	6 - 18	45	53	4.0	10	± 2.0	25	2:1	450	8I,46
LA6018N1413	6 - 18	11	17	4.0	13	± 1.8	20	2:1	180	2I,2MH
LA6018N2113	6 - 18	18	24	3.5	13	± 1.5	20	2:1	180	4I,3MH
LA6018N2815	6 - 18	25	32	3.0	15	± 1.5	20	2:1	280	4I,4MH
LA6018N3515	6 - 18	31	39	3.5	15	± 2.0	25	2:1	350	6I,6MH
LA6018N4215	6 - 18	38	46	3.5	15	± 2.0	25	2:1	380	8I,46
LA6018N4915	6 - 18	45	53	4.0	10	± 2.2	25	2:1	450	8I,46
LA8012N1409	8 - 12	11	17	3.5	9	± 1.4	20	2:1	150	2I,2MH
LA8012N2109A	8 - 12	18	24	3.0	9	± 1.4	20	2:1	150	4I,3MH
LA8012N2810A	8 - 12	25	31	3.0	10	± 1.4	20	2:1	250	4I,4MH
LA8012N3510A	8 - 12	32	38	3.5	10	± 1.4	20	2:1	300	6I,6MH
LA8012N4210A	8 - 12	39	46	3.5	10	± 1.8	25	2:1	350	8I,46
LA8012N2109B	8 - 12	18	24	2.5	9	± 1.4	20	2:1	150	4I,3MH
LA8012N2810B	8 - 12	25	31	2.5	10	± 1.4	20	2:1	250	4I,4MH
LA8012N3510B	8 - 12	32	38	2.5	10	± 1.4	20	2:1	300	6I,6MH
LA8012N4210B	8 - 12	39	46	2.5	10	± 1.8	25	2:1	350	8I,46

## Amplifiers



Coaxial

### Broadband Low Noise Small Signal Amplifiers 0.3 to 18GHz

Continued

P/N	Freq. Range (GHz)	Gain (dB)		Noise Figure (dB)	Pout@1dB (dBm)	Flatness (dB)	IP <sub>3</sub> (dBm)	VSWR	Current +12V (mA)	Case
		Min	Max	Max	Min	Max	Typ	Max	Typ	
LA8012N4910	8 - 12	45	53	4.0	10	± 1.8	25	2:1	400	8I,46
LA8014N2109	8 - 14	18	24	2.5	9	± 1.4	20	2:1	150	4I,3MH
LA8014N2810	8 - 14	25	31	2.5	10	± 1.4	20	2:1	250	4I,4MH
LA8014N3510	8 - 14	32	38	2.5	10	± 1.4	20	2:1	300	6I,6MH
LA8012N1713	8 - 12	14	20	4.0	13	± 1.4	20	2:1	150	2I,2MH
LA8012N2113A	8 - 12	18	24	3.0	13	± 1.2	20	2:1	150	4I,3MH
LA8012N2815A	8 - 12	25	31	3.0	15	± 1.4	20	2:1	250	4I,4MH
LA8012N3515A	8 - 12	32	38	3.5	15	± 1.4	20	2:1	300	6I,6MH
LA8012N4215A	8 - 12	39	46	3.5	15	± 1.4	25	2:1	350	8I,46
LA8012N4915A	8 - 12	45	53	4.0	15	± 2.0	25	2:1	400	8I,46
LA8012N2113B	8 - 12	18	24	2.5	13	± 1.2	20	2:1	150	4I,3MH
LA8012N2815B	8 - 12	25	31	2.5	15	± 1.4	20	2:1	250	4I,4MH
LA8012N3515B	8 - 12	32	38	2.5	15	± 1.4	20	2:1	300	6I,6MH
LA8012N4215B	8 - 12	39	46	2.5	15	± 1.4	25	2:1	350	8I,46
LA8012N4915B	8 - 12	45	53	2.5	15	± 2.0	25	2:1	400	8I,46
LA8018N1709	8 - 18	14	20	4.0	9	± 1.4	20	2:1	180	2I,2MH
LA8018N2109	8 - 18	18	24	3.0	9	± 1.4	20	2:1	180	4I,3MH
LA8018N2810	8 - 18	25	32	3.0	10	± 1.5	20	2:1	280	4I,4MH
LA8018N3510	8 - 18	32	39	3.5	10	± 1.8	20	2:1	350	6I,6MH
LA8018N4210	8 - 18	39	46	3.5	10	± 2.0	25	2:1	380	8I,46
LA8018N4910	8 - 18	45	53	4.0	10	± 2.0	25	2:1	450	8I,46
LA8018N1713	8 - 18	14	20	4.0	13	± 1.8	20	2:1	180	2I,2MH
LA8018N2113	8 - 18	18	24	3.0	13	± 1.4	20	2:1	180	4I,3MH
LA8018N2815	8 - 18	25	32	3.0	15	± 1.5	20	2:1	280	4I,4MH
LA8018N3515	8 - 18	32	39	3.5	15	± 1.8	20	2:1	350	6I,6MH
LA8018N4215	8 - 18	39	46	3.5	15	± 2.0	25	2:1	380	8I,46
LA8018N4915	8 - 18	45	53	4.0	15	± 2.0	25	2:1	450	8I,46

**Notes:**

1. Operating Temperature : -55 °C to +85 °C. Storage Temperature : -60 °C to +90 °C.
2. All products have built-in voltage regulators, which can operate from +10V to +18VDC.
3. Many kinds of cases are in stock; such as 08,10,46,55 and so on, special housings are available.
4. Connectors for MH case are detachable, insulator input and output after removal of connectors.
5. Maximum input power level is 20dBm for CW, or 30dBm for pulse with 1 μ s PW and 1% duty cycle.
6. Custom Design Available