

Amplifiers



Coaxial

Temperature Compensated Low Noise Amplifiers 0.5 to 18GHz

P/N	Freq. Range (GHz)	Gain (dB)		Noise Figure (dB) Max	Pout@1dB (dBm) Min	Flatness (dB) Max	IP ₃ (dBm) Typ	VSWR Max	Current +12V (mA) Typ	Case
		Min	Max							
LA0510T1610	0.5 - 1	13	18	3.0	10	± 1.0	20	2:1	120	2I,2MH
LA0510T3210	0.5 - 1	29	35	3.5	10	± 1.5	20	2:1	200	4I,3MH
LA0510T1614	0.5 - 1	13	18	3.0	14	± 1.5	20	2:1	120	2I,2MH
LA0510T3214	0.5 - 1	29	35	3.5	14	± 1.5	20	2:1	200	4I,3MH
LA0520T1610	0.5 - 2	13	18	3.0	10	± 1.0	20	2:1	120	4I,3MH
LA0520T3210	0.5 - 2	29	35	3.5	10	± 1.8	20	2:1	200	4I,3MH
LA0520T1614	0.5 - 2	13	18	3.0	14	± 1.5	20	2:1	120	4I,3MH
LA0520T3214	0.5 - 2	29	35	3.5	14	± 1.8	20	2:1	200	4I,3MH
LA1020T1610	1 - 2	13	18	3.5	10	± 1.0	20	2:1	120	4I,3MH
LA1020T3214	1 - 2	29	35	3.5	14	± 1.8	20	2:1	200	4I,3MH
LA2040T1409	2 - 4	12	17	4.0	9	± 1.5	20	2:1	150	4I,3MH
LA2040T2109	2 - 4	18	24	3.5	9	± 1.5	20	2:1	180	4I,3MH
LA2040T2810	2 - 4	24	31	3.5	10	± 1.5	20	2:1	250	4I,4MH
LA2040T3510	2 - 4	31	39	4.0	10	± 1.8	25	2:1	300	6I,6MH
LA2040T4210	2 - 4	37	46	4.0	10	± 2.0	25	2:1	380	6I,6MH
LA2040T1613	2 - 4	14	19	4.3	13	± 1.5	20	2:1	150	4I,3MH
LA2040T2113	2 - 4	18	24	3.5	13	± 1.5	20	2:1	180	4I,3MH
LA2040T2815	2 - 4	24	31	3.5	15	± 1.8	20	2:1	250	4I,4MH
LA2040T3515	2 - 4	31	39	4.0	15	± 1.8	25	2:1	300	6I,6MH
LA2040T4215	2 - 4	37	46	4.0	15	± 2.0	25	2:1	380	6I,6MH
LA2080T1409	2 - 8	11	17	4.0	9	± 1.8	20	2:1	150	4I,3MH
LA2080T2109	2 - 8	18	24	4.0	9	± 1.8	20	2:1	180	4I,3MH
LA2080T2810	2 - 8	24	32	3.5	10	± 1.8	20	2:1	250	4I,4MH
LA2080T3510	2 - 8	31	39	4.0	10	± 2	25	2:1	350	6I,6MH
LA2080T4210	2 - 8	37	46	4.0	10	± 2.2	25	2:1	380	6I,6MH
LA2080T1713	2 - 8	14	21	4.5	13	± 1.8	20	2:1	150	4I,3MH
LA2080T2113	2 - 8	18	24	4.0	13	± 1.8	20	2:1	250	4I,3MH
LA2080T2815	2 - 8	24	32	3.5	15	± 1.8	20	2:1	300	4I,4MH
LA2080T3515	2 - 8	31	39	4.0	15	± 2	25	2:1	350	6I,6MH
LA2080T4215	2 - 8	37	46	4.0	15	± 2.2	25	2:1	380	6I,6MH
LA2018T1809	2 - 18	15	22	5.0	9	± 2.0	18	2.2:1	200	4I,3MH
LA2018T2609	2 - 18	22	30	5.0	9	± 2.0	18	2.2:1	250	6I,6MH
LA2018T3209	2 - 18	27	36	5.0	9	± 2.2	18	2.2:1	300	6I,6MH
LA2018T4009	2 - 18	36	46	5.5	9	± 2.5	18	2.2:1	450	6I,6MH
LA2018T1814	2 - 18	15	22	7.0	14	± 2.0	23	2.2:1	250	4I,3MH
LA2018T2614	2 - 18	22	30	5.5	14	± 2.0	23	2.2:1	280	4I,6MH
LA2018T3214	2 - 18	27	36	5.5	14	± 2.2	23	2.2:1	350	6I,6MH
LA2018T4014	2 - 18	36	46	6.0	14	± 2.5	23	2.2:1	450	6I,6MH
LA4080T1709	4 - 8	14	21	4.0	9	± 1.5	20	2:1	150	4I,3MH
LA4080T2109	4 - 8	18	24	3.5	9	± 1.5	20	2:1	180	4I,3MH
LA4080T2810	4 - 8	24	31	3.5	10	± 1.8	20	2:1	250	4I,4MH
LA4080T3510	4 - 8	31	39	4.0	10	± 2.0	25	2:1	300	6I,6MH
LA4080T4210	4 - 8	37	46	4.0	10	± 2.0	25	2:1	380	6I,6MH

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Temperature Compensated Low Noise Amplifiers 0.5 to 18GHz

Continued

P/N	Freq. Range (GHz)	Gain (dB)		Noise Figure (dB)	Pout@1dB (dBm)	Flatness (dB)	IP ₃ (dBm)	VSWR	Current +12V (mA)	Case
		Min	Max	Max	Min	Max	Typ	Max	Typ	
LA4080T1713	4 - 8	14	21	4.0	13	± 1.5	20	2:1	150	4I,3MH
LA4080T2113	4 - 8	18	24	3.5	13	± 1.5	20	2:1	180	4I,3MH
LA4080T2815	4 - 8	24	31	3.5	15	± 1.8	20	2:1	250	4I,4MH
LA4080T3515	4 - 8	31	39	4.0	15	± 2.0	25	2:1	300	6I,6MH
LA4080T4215	4 - 8	37	46	4.0	15	± 2.0	25	2:1	380	6I,6MH
LA6018T1409	6 - 18	11	17	4.5	9	± 2.0	20	2:1	180	4I,3MH
LA6018T2109	6 - 18	17	24	4.0	9	± 2.0	20	2:1	200	4I,4MH
LA6018T2810	6 - 18	24	31	4.0	10	± 2.0	20	2:1	280	6I,6MH
LA6018T3510	6 - 18	31	39	4.5	10	± 2.0	25	2:1	350	8I,46
LA6018T4210	6 - 18	38	46	4.5	10	± 2.0	25	2:1	380	8I,46
LA6018T4910	6 - 18	44	53	4.5	10	± 2.2	25	2:1	450	8I,46
LA6018T1413	6 - 18	11	17	4.5	13	± 2.0	20	2:1	180	4I,3MH
LA6018T2113	6 - 18	17	24	4.0	13	± 2.0	20	2:1	200	4I,4MH
LA6018T2815	6 - 18	24	31	4.0	15	± 2.0	20	2:1	280	6I,6MH
LA6018T3515	6 - 18	31	39	4.5	15	± 2.0	25	2:1	350	8I,46
LA6018T4215	6 - 18	38	46	4.5	15	± 2.0	25	2:1	380	8I,46
LA6018T4915	6 - 18	44	53	4.5	10	± 2.2	25	2:1	450	8I,46
LA8012T1409	8 - 12	11	17	4.5	9	± 1.5	20	2:1	150	4I,3MH
LA8012T2109	8 - 12	17	24	4.0	9	± 1.5	20	2:1	200	4I,3MH
LA8012T2810	8 - 12	24	31	3.5	10	± 1.5	20	2:1	250	4I,4MH
LA8012T3510	8 - 12	31	39	4.5	10	± 1.8	20	2:1	300	6I,6MH
LA8012T4210	8 - 12	38	46	4.5	10	± 2.0	25	2:1	350	8I,46
LA8012T4910	8 - 12	44	53	4.5	10	± 2.0	25	2:1	400	8I,46
LA8012T1713	8 - 12	14	21	4.5	13	± 1.8	20	2:1	150	4I,3MH
LA8012T2113	8 - 12	17	24	4.0	13	± 1.8	20	2:1	200	4I,3MH
LA8012T2815	8 - 12	24	31	3.5	15	± 2	20	2:1	250	4I,4MH
LA8012T3515	8 - 12	31	39	4.5	15	± 2.0	20	2:1	300	6I,6MH
LA8012T4215	8 - 12	38	46	4.5	15	± 2.0	25	2:1	350	8I,46
LA8012T4915	8 - 12	44	53	4.5	15	± 2.0	25	2:1	400	8I,46
LA8018T1409	8 - 18	11	17	4.5	9	± 2	20	2:1	180	4I,3MH
LA8018T2109	8 - 18	17	24	4.0	9	± 1.8	20	2:1	200	4I,3MH
LA8018T2810	8 - 18	24	31	3.5	10	± 2	20	2:1	280	4I,4MH
LA8018T3510	8 - 18	31	39	4.5	10	± 1.8	20	2:1	350	6I,6MH
LA8018T4210	8 - 18	38	46	4.5	10	± 2.0	25	2:1	380	8I,46
LA8018T4910	8 - 18	44	53	4.5	10	± 2.2	25	2:1	450	8I,46
LA8018T1413	8 - 18	11	17	4.5	13	± 2	20	2:1	180	4I,3MH
LA8018T2113	8 - 18	17	24	4.0	13	± 1.8	20	2:1	200	4I,4MH
LA8018T2815	8 - 18	24	31	4.0	15	± 2	20	2:1	280	6I,6MH
LA8018T3515	8 - 18	31	39	4.5	15	± 2.0	20	2:1	350	6I,6MH
LA8018T4215	8 - 18	38	46	4.5	15	± 2.0	25	2:1	380	8I,46
LA8018T4915	8 - 18	44	53	4.5	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 Designs Available



Temperature Compensated Low Noise Amplifiers

The content of this specification may change without notification 8/01/09



Amplifiers



Coaxial

Temperature Compensated Low Noise Medium Power Amplifiers 1 to 18GHz

P/N	Freq. Range (GHz)	Gain (dB)		Noise Figure (dB)	Pout@1dB (dBm)	Flatness (dB)	IP ₃ (dBm)	VSWR	Current +12V (mA)	Case
		Min	Max	Max	Min	Max	Typ	Max	Typ	
LA1020T3220	1 - 2	28	35	4.0	20	± 2	30	2:1	350	41,4MH
LA2040T2120	2 - 4	18	24	4.5	20	± 1.8	30	2:1	250	41,4MH
LA2040T2820	2 - 4	24	31	4.5	20	± 1.8	30	2:1	300	41,4MH
LA2040T3520	2 - 4	31	39	5	20	± 2.0	30	2:1	350	61,6MH
LA2040T4220	2 - 4	37	46	5	20	± 2.0	30	2:1	400	61,6MH
LA2080T2120	2 - 8	17	24	5	20	± 2.0	30	2:1	250	41,4MH
LA2080T2820	2 - 8	24	32	4.5	20	± 2	30	2:1	300	41,4MH
LA2080T3520	2 - 8	31	39	4.5	20	± 2.0	30	2:1	350	61,6MH
LA2080T4220	2 - 8	37	46	5	20	± 2.5	30	2:1	450	61,6MH
LA2018T2420	2 - 18	20	28	6.5	20	± 2.5	30	2.2:1	300	61,6MH
LA2018T3220	2 - 18	27	36	4.5	20	± 2.5	30	2.2:1	450	61,6MH
LA2018T4020	2 - 18	35	46	4.5	20	± 3	28	2.5:1	480	61,6MH
LA4080T2120	4 - 8	18	24	5	20	± 2	30	2:1	250	41,4MH
LA4080T2820	4 - 8	24	31	4.5	20	± 2	30	2:1	350	41,4MH
LA4080T3520	4 - 8	31	39	5	20	± 2.2	30	2:1	400	61,6MH
LA4080T4215	4 - 8	37	46	5	20	± 2.2	30	2:1	450	61,6MH
LA6018T2120	6 - 18	17	24	5	20	± 2	30	2:1	280	41,4MH
LA6018T2820	6 - 18	24	32	5	20	± 2	30	2:1	380	41,4MH
LA6018T3520	6 - 18	31	39	5.5	20	± 2.2	30	2:1	380	81,46
LA6018T4220	6 - 18	37	46	5.5	20	± 2.5	30	2:1	400	81,46
LA6018T4920	6 - 18	44	53	5.5	20	± 2.8	30	2:1	480	81,46
LA8012T2120	8 - 12	17	24	5.5	20	± 1.5	30	2:1	250	41,4MH
LA8012T2820	8 - 12	24	31	4.5	20	± 1.5	30	2:1	350	41,4MH
LA8012T3520	8 - 12	31	39	5.5	20	± 1.8	30	2:1	450	61,6MH
LA8012T4220	8 - 12	37	46	5.5	20	± 2.0	30	2:1	450	81,46
LA8012T4920	8 - 12	44	53	5.5	20	± 2.0	30	2:1	500	81,46
LA8018T2120	8 - 18	17	24	5	20	± 1.8	30	2:1	280	41,4MH
LA8018T2820	8 - 18	24	32	4.5	20	± 1.8	30	2:1	380	41,4MH
LA8018T3520	8 - 18	31	39	5	20	± 1.8	30	2:1	380	61,6MH
LA8018T4220	8 - 18	37	46	5.5	20	± 2.0	30	2:1	400	81,46
LA8018T4920	8 - 18	44	53	5.5	20	± 2.2	30	2:1	450	81,46

Notes:

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5. Maximum input power level is 20dBm for CW, or 30dBm for pulse with 1 μ s PW and 1% duty cycle.
6. Custom Designs Available