

Broadband Low Noise Amplifiers

FEATURES:

- ❖ Coverage From 0.01 to 97.0 GHz (Octave/Multi-octave)
- ❖ Noise Figure As Low As 1.5 dB
- ❖ Wide Dynamic Range
- ❖ Compact/Rugged Thin-Film Construction
- ❖ Economically Priced



DESCRIPTION:

CBL Series

Cernex's CBL series are general purpose amplifiers suitable for a wide range of applications in commercial and military systems where low to high gain block amplifiers are required. CBL series are compact, rugged, and may be designed into commercial and military systems where stringent environments are encountered.

SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBLU1011313	0.1-1	13	1.00	1.30	10	2.5:1	85	LN4
CBLU1023612	0.1-2	36	1.00	1.20	10	2:1	150	LN4
CBLU1033213	0.1-3	32	1.00	1.30	10	2:1	150	LN4
CBLU1042615	0.1-4	26	1.25	1.50	10	2:1	150	LN4
CBLU1063020	0.1-6	30	1.50	2.00	10	2:1	175	LN3
CBLU1083025	0.1-8	30	1.50	2.50	10	2:1	175	LN3
CBLU1102828	0.1-10	28	1.50	2.80	10	2:1	175	LN4/HN4
CBLU1122630	0.1-12	26	1.50	3.00	10	2:1	175	LN4/HN4
CBLU1142232	0.1-14	22	2.00	3.20	10	2.5:1	200	LN4/HN4
CBLU1162134	0.1-16	21	2.00	3.40	10	2.5:1	200	LN4/HN4
CBLU1181835	0.1-18	18	2.00	3.50	10	2.5:1	200	LN4/HN4
CBLU1183540	0.1-18	35	3.00	4.00 **	10	2.5:1	200	LN5 / HN5
CBLU1201838	0.1-20	18	2.50	3.80	10	2.5:1	175	LN4/HN4
CBLU1221645	0.1-22	16	2.50	4.50	10	2.5:1	175	MN3
CBLU1241645	0.1-24	16	2.50	4.50	10	2.5:1	175	MN3
CBLU1261645	0.1-26.5	16	2.50	4.50	10	2.5:1	175	MN3
CBLU1281645	0.1-28	16	2.50	4.50	10	2.7:1	175	MK3
CBLU1301545	0.1-30	15	2.50	4.50	7	3.0:1	175	MK3
CBLU1401450	0.1-40	14	4.00	5.00	6	3.5:1	275	MK3
CBLU1U23611	0.12-0.25	36	1.00	1.10	10	2:1	120	LN3



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CBLU2053610	0.25-5	36	1.00	1.00	10	2:1	180	LN4
CBLU3012510	0.3-1.4	25	1.00	1.00	10	2:1	100	LN3
CBLU5012408	0.5-1	24	1.00	0.80	10	2:1	100	LN3
CBLU5023610	0.5-2	36	1.00	1.00	10	2:1	130	LN4
CBLU5021125	0.5-2	11	0.75	2.50	10	2:1	100	LN2 / HN2
CBLU5022325	0.5-2	23	1.00	2.50	12	2:1	150	LN3 / HN3
CBLU5023230	0.5-2	32	1.25	3.00	15	2:1	200	LN4 / HN4
CBLU5023830	0.5-2	38	1.25	3.00	15	2:1	240	LN4 / HN4
CBLU5022125	0.5-2	21	1.00	2.50	18	2:1	200	LN3 / HN3
CBLU5023425	0.5-2	34	1.00	2.50	18	2:1	250	LN4 / HN4
CBLU5022435	0.5-2	24	1.00	3.50	20	2:1	240	LN3 / HN3
CBLU5023135	0.5-2	31	1.00	3.50	20	2:1	260	LN3 / HN3
CBLU5024035	0.5-2	40	1.25	3.50	20	2:1	320	LN5 / HN5
CBLU5042030	0.5-4	20	1.00	3.00	12	2:1	120	LN3 / HN3
CBLU5042630	0.5-4	26	1.25	3.00	12	2:1	180	LN3 / HN3
CBLU5043030	0.5-4	30	1.50	3.00	12	2:1	240	LN3 / HN3
CBLU5042240	0.5-4	22	1.00	4.00	15	2:1	180	LN3 / HN3
CBLU5043140	0.5-4	31	1.50	4.00	18	2:1	240	LN4 / HN4
CBLU5044040	0.5-4	40	1.5	4.00	18	2:1	300	LN4 / HN4
CBLU5062645	0.5-6	26	1.50	4.50	12	2:1	225	LN3 / HN3
CBLU5064045	0.5-6	40	2.00	4.50	12	2:1	330	LN4 / HN4
CBLU5062745	0.5-6	27	1.50	4.50	15	2:1	225	LN3 / HN3
CBLU5064145	0.5-6	41	2.00	4.50	15	2:1	330	LN4 / HN4
CBLU5082550	0.5-8	25	1.75	5.00	12	2.5:1	225	LN3 / HN3
CBLU5083750	0.5-8	37	2.00	5.00	12	2.5:1	330	LN4 / HN4
CBLU5082450	0.5-8	24	1.75	5.00	15	2.5:1	225	LN3 / HN3
CBLU5083950	0.5-8	39	2.00	5.00	15	2.5:1	330	LN4 / HN4
CBLU5122050	0.5-12	20	2.00	5.00	12	2.5:1	225	LN3 / HN3
CBLU5123050	0.5-12	30	2.25	5.00	12	2.5:1	330	LN4 / HN4
CBLU5124050	0.5-12	40	2.50	5.00	12	2.5:1	450	LN4 / HN4
CBLU5122150	0.5-12	21	2.00	5.00	15	2.5:1	225	LN3 / HN3
CBLU5123150	0.5-12	31	2.25	5.00	15	2.5:1	330	LN4 / HN4
CBLU5124150	0.5-12	41	2.25	5.00	15	2.5:1	450	LN4 / HN4
CBLU5181550	0.5-18	15	2.75	5.00	10	2.5:1	150	LN3 / HN3
CBLU5182060	0.5-18	20	3.25	6.00	12	2.5:1	310	LN3 / HN3
CBLU5182560	0.5-18	25	3.75	6.00	12	2.5:1	370	LN4 / HN4
CBLU5183060	0.5-18	30	3.75	6.00	12	2.5:1	430	LN4 / HN4
CBLU5183530	0.5-18	35	2.75	3.00	10	2.5:1	225	LN4 / HN4
CBLU5184540	0.5-18	45	2.50	4.00	8	2.5:1	250	LN4 / HN4
CBL01023407	1-2	34	1.00	0.70	10	2.0:1	130	LN3
CBL01023805	1-2	38	1.00	0.50	10	2:1	150	LN4 / HN4
CBL01022616	1-2	26	1.00	1.60	10	2.0:1	100	LN3 / HN3



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CBL01022420	1-2	24	1.00	2.00	12	2.0:1	150	LN3 / HN3
CBL01023225	1-2	32	1.00	2.50	12	2.0:1	180	LN4 / HN4
CBL01024030	1-2	42	1.25	3.00	12	2.0:1	240	LN5 / HN5
CBL01022825	1-2	28	1.00	2.50	18	2.0:1	250	LN4 / HN4
CBL01024130	1-2	41	1.25	3.00	18	2.0:1	350	LN5 / HN5
CBL01032811	1-3	28	1.50	1.1	8	2.5:1	150	LN4
CBL01042608	1-4	26	1.75	1.3	8	2.5:1	175	LN4
CBL01401550	1-40	15	3.00	5.00	8	2.2:1	200	MK3
CBL01401570	1-40	15	3.00	7.00	8	2.25:1	200	MK3
CBL01402570	1-40	25	5.00	7.00	8	2.25:1	325	MK3
CBL01403060	1-40	30	5.00	6.00	10	2.25:1	350	MK4
CBL01403070	1-40	30	6.00	7.00	8	2.25:1	400	MK4
CBL01022310	1.2-2.4	23	1.00	1.0	8	2.0:1	100	LN2
CBL02042618	2-4	26	1.00	1.80	10	2:1	100	LN4 / HN4
CBL02042810	2-4	28	1.00	1.0	10	2:1	125	LN3
CBL02042420	2-4	24	1.00	2.00	12	2:1	180	LN4 / HN4
CBL02043020	2-4	30	1.25	2.00	12	2:1	240	LN3 / HN3
CBL02043206	2-4	32	1.00	0.60	10	2:1	125	LN4 / HN4
CBL02044020	2-4	40	1.25	2.00	15	2:1	300	LN4 / HN4
CBL02042325	2-4	23	1.00	2.50	18	2:1	240	LN4 / HN4
CBL02042925	2-4	29	1.25	2.50	18	2:1	300	LN4 / HN4
CBL02043925	2-4	39	1.50	2.50	18	2:1	360	LN5 / HN5
CBL02062616	2-6	26	1.00	1.60	10	2.0:1	125	LN3
CBL02062430	2-6	24	1.00	3.00	12	2:1	160	LN3 / HN3
CBL02063030	2-6	30	1.50	3.00	12	2:1	220	LN4 / HN4
CBL02064030	2-6	40	2.00	3.00	12	2:1	300	LN5 / HN5
CBL02062335	2-6	23	1.00	3.50	18	2:1	200	LN3 / HN3
CBL02062935	2-6	29	1.50	3.50	18	2:1	250	LN4 / HN4
CBL02063935	2-6	39	2.00	3.50	18	2:1	360	LN5 / HN5
CBL02083020	2-8	30	1.50	2.00	10	2:1	175	LN3
CBL02081425	2-8	14	1.50	2.50	10	2:1	70	LN2 / HN2
CBL02082235	2-8	22	1.00	3.50	12	2:1	180	LN3 / HN3
CBL02083035	2-8	30	1.50	3.50	12	2:1	240	LN4 / HN4
CBL02084035	2-8	40	2.00	3.50	12	2:1	300	LN5 / HN5
CBL02082425	2-8	24	1.50	2.50	15	2:1	150	LN3 / HN3
CBL02083025	2-8	30	1.50	2.50	15	2:1	200	LN4 / HN4
CBL02084225	2-8	42	1.50	2.50	15	2:1	300	LN4 / HN4
CBL02082525	2-8	25	1/50	2.50	18	2:1	175	LN3 / HN3
CBL02082140	2-8	21	1.00	4.00	18	2:1	250	LN3 / HN3
CBL02082940	2-8	29	2.00	4.00	18	2:1	300	LN4 / HN4
CBL02083940	2-8	39	2.00	4.00	18	2:1	360	LN5 / HN5
CBL02083230	2-8	32	1.50	3.00	20	2:1	300	LN4 / HN4



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CBL02084230	2-8	42	1.50	3.00	20	2:1	350	LN4 / HN4
CBL02084530	2-8	45	1.50	3.00	20	2:1	400	LN5 / HN5
CBL02102045	2-10	20	2.00	4.50	12	2:1	200	LN3 / HN3
CBL02103045	2-10	30	2.50	4.50	12	2:1	300	LN4 / HN4
CBL02102047	2-10	20	2.00	4.75	18	2:1	250	LN3 / HN3
CBL02103047	2-10	30	2.50	4.75	18	2:1	350	LN4 / HN4
CBL02121950	2-12	19	2.00	5.00	12	2:1	200	LN3 / HN3
CBL02122750	2-12	27	2.00	5.00	12	2:1	300	LN4 / HN4
CBL02123650	2-12	36	2.50	5.00	12	2:1	375	LN5 / HN5
CBL02121855	2-12	18	2.50	5.50	18	2:1	250	LN3 / HN3
CBL02122655	2-12	26	2.50	5.50	18	2:1	350	LN4 / HN4
CBL02123555	2-12	35	2.50	5.50	18	2:1	400	LN5 / HN5
CBL02182035	2-18	20	2.50	3.50	10	2.5:1	100	LN3
CBL02180745	2-18	7	1.50	4.50	8	2.2:1	65	LN2 / HN2
CBL02181445	2-18	14	1.50	4.50	9	2.2:1	100	LN3 / HN3
CBL02182235	2-18	22	2.00	3.50	8	2.2:1	160	LN3 / HN3
CBL02183235	2-18	32	2.00	3.50	8	2.2:1	200	LN4 / HN4
CBL02183145	2-18	31	2.00	4.50	15	2.2:1	325	LN4 / HN4
CBL02182045	2-18	20	2.00	4.50	18	2.2:1	350	LN3 / HN3
CBL02181860	2-18	18	2.50	6.00	12	2.3:1	200	LN3 / HN3
CBL02182460	2-18	24	3.00	6.00	12	2.3:1	300	LN3 / HN3
CBL02183060	2-18	30	3.50	6.00	12	2.3:1	350	LN4 / HN4
CBL02183560	2-18	35	3.75	6.00	12	2.3:1	400	LN4 / HN4
CBL02181760	2-18	17	2.75	6.00	15	2.3:1	275	LN3 / HN3
CBL02182360	2-18	23	3.25	6.00	15	2.3:1	325	LN3 / HN3
CBL02182960	2-18	29	3.75	6.00	15	2.3:1	375	LN4 / HN4
CBL02202070	2-20	20	2.50	7.00	12	2.5:1	275	LN3 / HN3
CBL02202570	2-20	25	2.75	7.00	12	2.5:1	350	LN4 / HN4
CBL02203070	2-20	30	3.00	7.00	12	2.5:1	425	LN4 / HN4
CBL02203570	2-20	35	3.25	7.00	12	2.5:1	500	LN6 / HN6
CBL02261590	2-26.5	15	2.50	9.00	12	2.5:1	275	LN3 / HN3
CBL02262290	2-26.5	22	3.00	9.00	12	2.5:1	400	LN4 / HN4
CBL02262960	2-26.5	29	3.50	6.00	12	2.5:1	500	LN5 / HN5
CBL02401570	2-40	15	4.0	7.00	8	2.5:1	200	MK3
CBL02402070	2-40	20	5.0	7.00	8	2.5:1	300	MK3
CBL02403050	2-40	30	5.0	5.00	10	2.25:1	350	MK4
CBL02403060	2-40	30	5.0	6.00	10	2.25:1	350	MK4
CBL02501411	2-50	14	3.00	11.00	10	2.5:1	200	MK3
CBL02502011	2-50	20	3.50	11.00	10	2.5:1	300	MK3
CBL02053215	2.6-5.2	32	1.25	1.5	10	2:1	150	LN3



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CBL03142040	3.7-14.5	20	2.00	4.00	12	2:1	150	LN3 / HN3
CBL03143040	3.7-14.5	30	2.50	4.00	12	2:1	225	LN4 / HN4
CBL03144040	3.7-14.5	40	3.00	4.00	12	2:1	300	LN5 / HN5
CBL03141940	3.7-14.5	19	2.00	4.00	18	2:1	150	LN3 / HN3
CBL03141940	3.7-14.5	29	2.50	4.00	18	2:1	225	LN4 / HN4
CBL03143940	3.7-14.5	39	3.00	4.00	18	2:1	300	LN5 / HN5
CBL04083412	4-8	34	1.00	1.2	10	2:1	175	LN3
CBL04082115	4-8	21	1.50	1.50	8	2.2:1	110	LN3 / HN3
CBL04082915	4-8	29	1.50	1.50	15	2.2:1	180	LN3 / HN3
CBL04083025	4-8	30	1.50	2.50	18	2:1	230	LN4 / HN4
CBL04083708	4-8	37	1.00	0.80	10	2:1	125	LN4 / HN4
CBL04082430	4-8	24	1.00	3.00	12	2:1	180	LN3 / HN3
CBL04083230	4-8	32	1.50	3.00	12	2:1	240	LN4 / HN4
CBL04084030	4-8	40	1.50	3.00	12	2:1	300	LN5 / HN5
CBL04082330	4-8	23	1.00	3.00	18	2:1	250	LN3 / HN3
CBL04083130	4-8	31	1.50	3.00	18	2:1	300	LN4 / HN4
CBL04083930	4-8	39	1.50	3.00	18	2:1	350	LN5 / HN5
CBL04101025	4-10.5	10	1.50	2.50	8	2:1	75	LN2 / HN2
CBL04101925	4-10.5	19	1.50	2.50	10	2:1	140	LN3 / HN3
CBL04102825	4-10.5	28	1.50	2.50	13	2:1	200	LN4 / HN4
CBL04104325	4-10.5	43	1.50	2.50	15	2:1	300	LN5 / HN5
CBL04102340	4-10.5	23	1.25	4.00	12	2:1	250	LN3 / HN3
CBL04103440	4-10.5	34	1.50	4.00	12	2:1	320	LN4 / HN4
CBL04102240	4-10.5	22	1.25	4.00	18	2:1	300	LN3 / HN3
CBL04103340	4-10.5	33	1.50	4.00	18	2:1	420	LN4 / HN4
CBL04122225	4-12	22	1.00	2.50	10	2:1	175	LN3
CBL04122240	4-12	22	1.50	4.00	12	2:1	150	LN3 / HN3
CBL04123340	4-12	33	2.00	4.00	12	2:1	225	LN4 / HN4
CBL04124440	4-12	44	2.50	4.00	12	2:1	300	LN5 / HN5
CBL04122140	4-12	21	1.50	4.00	18	2:1	150	LN3 / HN3
CBL04123240	4-12	32	2.00	4.00	18	2:1	225	LN4 / HN4
CBL04124340	4-12	43	2.50	4.00	18	2:1	300	LN5 / HN5
CBL04182050	4-18	20	3.50	5.00	10	2.5:1	185	LN4 / HN4
CBL05102718	5-10	27	1.25	1.8	10	2:1	150	LN3
CBL05131025	5-13	10	1.50	2.50	10	2:1	75	LN2 / HN2
CBL05132025	5-13	20	1.50	2.50	15	2:1	140	LN3 / HN3
CBL05133225	5-13	32	1.50	2.50	15	2:1	180	LN4 / HN4
CBL05132135	5-13	21	1.50	3.50	17	2:1	140	LN3 / HN3
CBL05133135	5-13	31	1.50	3.50	19	2:1	290	LN4 / HN4
CBL05134335	5-13	43	1.50	3.50	19	2:1	320	LN5 / HN5
CBL05135235	5-13	52	1.50	3.50	19	2:1	380	LN6 / HN6
CBL05152040	5-15	20	1.50	4.00	12	2:1	150	LN3 / HN3



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CBL05153040	5-15	30	2.00	4.00	12	2:1	225	LN4 / HN4
CBL05154040	5-15	40	2.50	4.00	12	2:1	300	LN5 / HN5
CBL05151940	5-15	19	1.50	4.00	18	2:1	150	LN3 / HN3
CBL05152940	5-15	29	2.00	4.00	18	2:1	225	LN4 / HN4
CBL05153940	5-15	39	2.50	4.00	18	2:1	300	LN5 / HN5
CBL06122219	6-12	22	1.00	1.9	10	2:1	175	LN3
CBL06121025	6-12	10	1.00	2.50	8	2:1	75	LN2 / HN2
CBL06122125	6-12	21	1.50	2.50	10	2:1	150	LN3 / HN3
CBL06122925	6-12	29	1.50	2.50	10	2:1	175	LN4 / HN4
CBL06124025	6-12	40	1.50	2.50	10	2:1	225	LN5 / HN5
CBL06125025	6-12	50	1.50	2.50	10	2:1	275	LN6 / HN6
CBL06122035	6-12	20	1.50	3.5	12	2:1	150	LN3 / HN3
CBL06122835	6-12	28	1.25	3.5	12	2:1	200	LN4 / HN4
CBL06123835	6-12	38	1.50	3.5	12	2:1	270	LN5 / HN5
CBL06121935	6-12	19	1.00	3.5	18	2:1	200	LN3 / HN3
CBL06122735	6-12	27	1.25	3.5	18	2:1	270	LN4 / HN4
CBL06123735	6-12	37	1.50	3.5	18	2:1	340	LN5 / HN5
CBL06182030	6-18	20	2.00	3.00	10	2.5:1	175	LN3
CBL06181023	6-18	10	1.50	2.30	8	2:1	80	LN3 / HN3
CBL06182025	6-18	20	1.50	2.50	8	2:1	150	LN3 / HN3
CBL06182525	6-18	25	1.50	2.50	13	2:1	190	LN4 / HN4
CBL06182825	6-18	28	1.50	2.50	15	2:1	200	LN4 / HN4
CBL06183225	6-18	32	1.50	2.50	15	2:1	275	LN5 / HN5
CBL06183825	6-18	38	1.50	2.50	15	2:1	350	LN5 / HN5
CBL06184425	6-18	44	1.50	2.50	15	2:1	420	LN6 / HN6
CBL06183525	6-18	35	1.50	2.50	17	2:1	375	LN5 / HN5
CBL06182527	6-18	25	1.50	2.70	8	2:1	190	LN4 / HN4
CBL06183730	6-18	37	1.50	3.00	17	2:1	295	LN5 / HN5
CBL06181430	6-18	14	1.50	3.00	13	2:1	140	LN3 / HN3
CBL06182030	6-18	20	1.50	3.00	13	2:1	200	LN3 / HN3
CBL06182630	6-18	26	1.50	3.00	15	2:1	260	LN4 / HN4
CBL06183230	6-18	32	1.50	3.00	15	2:1	320	LN5 / HN5
CBL06183830	6-18	38	1.50	3.00	15	2:1	440	LN5 / HN5
CBL06184430	6-18	44	1.50	3.00	15	2:1	500	LN6 / HN6
CBL06185030	6-18	50	1.50	3.00	15	2:1	350	LN6 / HN6
CBL06181840	6-18	18	1.00	4.00	12	2:1	150	LN3 / HN3
CBL06182740	6-18	27	2.00	4.00	12	2:1	220	LN4 / HN4
CBL06183640	6-18	36	2.50	4.00	12	2:1	250	LN5 / HN5
CBL06184040	6-18	40	3.00	4.00	12	2:1	320	LN5 / HN5
CBL06181740	6-18	17	1.50	4.00	18	2:1	220	LN3 / HN3
CBL06182640	6-18	26	2.00	4.00	18	2:1	290	LN4 / HN4
CBL06183540	6-18	35	2.50	4.00	18	2:1	330	LN5 / HN5

Broadband Low Noise Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBL06183940	6-18	39	3.00	4.00	18	2:1	400	LN5 / HN5
CBL06201650	6-20	16	2:00	5.00	12	2:1	200	LN3 / HN3
CBL06202350	6-20	23	2.00	5.00	12	2:1	250	LN4 / HN4
CBL06203150	6-20	31	3.00	5.00	12	2:1	300	LN5 / HN5
CBL06201550	6-20	15	2.00	5.00	17	2:1	235	LN3 / HN3
CBL06202250	6-20	22	2.50	5.00	17	2:1	170	LN4 / HN4
CBL06203050	6-20	30	3.00	5.00	17	2:1	170	LN5 / HN5
CBL07121025	7-12.4	10	1.00	2.50	9	2:1	75	LN2 / HN2
CBL07121825	7-12.4	18	1.50	2.50	15	2:1	125	LN3 / HN3
CBL07122825	7-12.4	28	1.50	2.50	15	2:1	190	LN4 / HN4
CBL07122825	7-12.4	38	1.50	2.50	15	2:1	315	LN5 / HN5
CBL07124725	7-12.4	47	1.50	2.50	15	2:1	380	LN6 / HN6
CBL07122230	7-12.4	22	1.50	3.00	20	2:1	260	LN3 / HN3
CBL07123230	7-12.4	32	1.50	3.00	20	2:1	310	LN4 / HN4
CBL07123630	7-12.4	36	1.50	3.00	20	2:1	350	LN5 / HN5
CBL08123015	8-12	30	1.25	1.5	10	2:1	150	LN3
CBL08122225	8-12	22	1.00	2.5	10	2:1	100	LN3 / HN3
CBL08122035	8-12	20	1.00	3.5	12	2:1	150	LN3 / HN3
CBL08122835	8-12	28	1.25	3.5	12	2:1	200	LN4 / HN4
CBL08123210	8-12	32	1.00	1.00	10	2:1	125	LN4 / HN4
CBL08123635	8-12	36	1.50	3.5	12	2:1	250	LN5 / HN5
CBL08124235	8-12	42	1.75	3.5	12	2:1	300	LN5 / HN5
CBL08121935	8-12	19	1.00	3.5	18	2:1	200	LN3 / HN3
CBL08122735	8-12	27	1.25	3.5	18	2:1	250	LN4 / HN4
CBL08123535	8-12	35	1.50	3.5	18	2:1	320	LN5 / HN5
CBL08124135	8-12	41	1.75	3.50	18	2:1	390	LN5 / HN5
CBL08182028	8-18	20	1.50	2.80	10	2.0:1	150	LN3
CBL08181940	8-18	19	1.50	4.00	12	2:1	150	LN3 / HN3
CBL08182840	8-18	28	1.75	4.00	12	2:1	200	LN4 / HN4
CBL08183622	8-18	36	2.00	2.20	10	2:1	200	LN5 / HN5
CBL08183740	8-18	37	2.00	4.00	12	2:1	250	LN5 / HN5
CBL08184140	8-18	41	2.25	4.00	12	2:1	330	LN5 / HN5
CBL08181840	8-18	18	1.50	4.00	18	2:1	220	LN3 / HN3
CBL08182740	8-18	27	1.75	4.00	18	2:1	290	LN4 / HN4
CBL08183640	8-18	36	2.00	4.00	18	2:1	330	LN5 / HN5
CBL08184040	8-18	40	2.25	4.00	18	2:1	400	LN5 / HN5
CBL10201745	10-20	17	1.25	4.50	12	2:1	150	LN3 / HN3
CBL10202245	10-20	22	1.50	4.50	12	2:1	200	LN4 / HN4
CBL10203545	10-20	35	2.00	4.50	12	2:1	250	LN5 / HN5
CBL10203945	10-20	39	2.00	4.50	12	2:1	300	LN5 / HN5
CBL10201645	10-20	16	1.50	4.50	18	2:1	260	LN3 / HN3
CBL10202545	10-20	25	2.00	4.50	18	2:1	340	LN4 / HN4



Broadband Low Noise Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBL10203445	10-20	34	2.00	4.50	18	2:1	420	LN5 / HN5
CBL10203845	10-20	38	2.25	4.50	18	2:1	500	LN5 / HN5
CBL12182420	12-18	24	1.50	2.0	10	2:1	120	LN3
CBL12181528	12-18	15	1.00	2.80	13	2:1	140	LN3 / HN3
CBL12182028	12-18	20	1.00	2.80	13	2:1	190	LN3 / HN3
CBL12182628	12-18	26	1.00	2.80	15	2:1	260	LN4 / HN4
CBL12183228	12-18	32	1.00	2.80	15	2:1	310	LN5 / HN5
CBL12183618	12-18	36	1.50	1.80	10	2:1	150	LN5 / HN5
CBL12183828	12-18	38	1.00	2.80	15	2:1	360	LN5 / HN5
CBL12184428	12-18	44	1.00	2.80	15	2:1	410	LN6 / HN6
CBL12181635	12-18	16	1.00	3.50	10	2:1	100	LN3 / HN3
CBL12182040	12-18	20	1.00	4.00	12	2:1	150	LN3 / HN3
CBL12182940	12-18	29	1.25	4.00	12	2:1	200	LN4 / HN4
CBL12183840	12-18	38	1.50	4.00	12	2:1	250	LN4 / HN4
CBL12184240	12-18	42	1.75	4.00	12	2:1	300	LN5 / HN5
CBL12181940	12-18	19	1.25	4.00	18	2:1	250	LN3 / HN3
CBL12182840	12-18	28	1.50	4.00	18	2:1	300	LN4 / HN4
CBL12183740	12-18	37	1.75	4.00	18	2:1	350	LN4 / HN4
CBL12201845	12-20	18	1.25	4.50	12	2:1	150	LN3 / HN3
CBL12202445	12-20	24	1.50	4.50	12	2:1	200	LN4 / HN4
CBL12203045	12-20	30	1.75	4.50	12	2:1	250	LN4 / HN4
CBL12203645	12-20	36	2.00	4.50	12	2:1	300	LN5 / HN5
CBL12202345	12-20	23	1.50	4.50	18	2:1	260	LN4 / HN4
CBL12202945	12-20	29	1.75	4.50	18	2:1	340	LN4 / HN4
CBL12203545	12-20	35	2.00	4.50	18	2:1	420	LN5 / HN5
CBL12204045	12-20	40	2.25	4.50	18	2:1	500	LN5 / HN5
CBL18263030	18-26.5	30	2.50	3.00	10	2.2:1	250	LN4 / HN4
CBL18262235	18-26.5	22	1.25	3.50	10	2:1	200	LN4 / HN4
CBL18262735	18-26.5	27	1.25	3.50	10	2:1	300	LN5 / HN5
CBL18261850	18-26.5	18	1.00	5.00	10	2:1	200	LN4 / HN4
CBL18262850	18-26.5	28	1.25	5.00	12	2:1	260	LN5 / HN5
CBL18263550	18-26.5	35	1.50	5.00	12	2:1	310	LN6 / HN6
CBL18264150	18-26.5	41	2.00	5.00	12	2:1	390	LN7 / HN7
CBL18263150	18-26.5	31	1.75	5.00	15	2:1	500	LN5 / HN5
CBL18263750	18-26.5	37	2.00	5.00	15	2:1	550	LN6 / HN6
CBL18261855	18-26.5	18	1.50	5.50	12	2:1	200	LN3 / HN3
CBL18262455	18-26.5	24	2.50	5.50	12	2:1	250	LN3 / HN3
CBL18263035	18-26.5	30	2.50	3.50	10	2:1	250	LN3 / HN3
CBL18263055	18-26.5	30	2.50	5.50	12	2:1	300	LN3 / HN3
CBL18263555	18-26.5	35	2.50	5.50	12	2:1	350	LN5 / HN5
CBL18261755	18-26.5	17	1.50	5.50	15	2:1	300	LN4 / HN4
CBL18262355	18-26.5	23	2.00	5.50	15	2:1	350	LN4 / HN4

Broadband Low Noise Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBL18262355	18-26.5	50	3.00	3.50	10	2.5:1	450	LN5 / HN5
CBL18402055	18-40	20	2.00	5.50	6	2.5:1	350	MK3
CBL18401375	18-40	13	2.00	7.50	10	2.5:1	225	MK3
CBL18401775	18-40	17	2.00	7.50	10	2.5:1	300	MK3
CBL18401775	18-40	17	2.50	7.50	13	2.5:1	450	MK3
CBL18402075	18-40	20	2.50	7.50	10	2.5:1	375	MK3
CBL18402475	18-40	24	3.00	7.50	10	2.5:1	450	MK3
CBL18402875	18-40	28	3.50	7.50	13	2.5:1	600	MK4
CBL18403475	18-40	34	3.50	7.50	13	2.5:1	675	MK4
CBL18401875	18-40	18	2.50	7.50	18	2.5:1	850	MK3
CBL18402575	18-40	25	2.50	7.50	18	2.5:1	950	MK3
CBL20401575	20-40	15	2.00	7.5	10	2.5:1	280	MK3
CBL20402075	20-40	20	2.25	7.5	10	2.5:1	350	MK3
CBL20402575	20-40	25	2.50	7.5	10	2.5:1	410	MK3
CBL20403075	20-40	30	2.75	7.5	10	2.5:1	470	MK4
CBL20403575	20-40	35	3.00	7.5	10	2.5:1	530	MK4
CBL26403035	26.5-40	30	2.50	3.50	10	2.5:1	250	MK3
CBL26402050	26.5-40	20	2.00	5.0	10	2.5:1	250	MK3
CBL26402550	26.5-40	25	2.00	5.0	10	2.5:1	325	MK3
CBL26403050	26.5-40	30	2.00	5.0	10	2.5:1	400	MK4
CBL26401565	26.5-40	15	1.50	6.5	7	2.5:1	210	MK3
CBL26402065	26.5-40	20	2.00	6.5	7	2.5:1	250	MK3
CBL26402465	26.5-40	24	2.25	6.5	7	2.5:1	300	MK3
CBL26405040	26.5-40	50	3.50	4.0	10	2.5:1	375	MK5
CBL26402965	26.5-40	29	2.50	6.5	12	2.5:1	350	MK4
CBL26403565	26.5-40	35	3.00	6.5	12	2.5:1	400	MK4
CBL26402265	26.5-40	22	2.00	6.5	15	2.5:1	350	MK3
CBL26403065	26.5-40	30	2.50	6.5	15	2.5:1	400	MK4
CBL57651555	57-65	15	2.50	5.5	9	2:1	70	*
CBL57652055	57-65	20	2.50	5.5	9	2:1	110	*
CBL85971870	85-97	18	2.0	7.0	2	4/2:1 typ	100	*
CBL85972370	85-97	23	2.5	7.0	2	4/2:1 typ	150	*
CBL92962370	92-96	23	2	7.0	2	4/2:1 typ	150	*

ALL THE ABOVE SPECIFICATIONS ARE @ 25°C

OTHER FREQUENCY BANDS & NOISE FIGURES ARE ALSO AVAILABLE.

TEMPERATURE COMPENSATED AMPLIFIERS & GAIN CONTROL ARE ALSO AVAILABLE.

*CONSULT THE FACTORY.

**NF WILL BE HIGHER BELOW 0.3GHz

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.