

## 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 ▲
CBLU1122630	0.1-12	26	1.50	3.00	10	2:1	175	LN4 ▲
CBLU1142232	0.1-14	22	2.00	3.20	10	2.5:1	200	LN4 ▲
CBLU1162134	0.1-16	21	2.00	3.40	10	2.5:1	200	LN4 ▲
CBLU1181835	0.1-18	18	2.00	3.50	10	2.5:1	200	LN3 ▲
CBLU1183540	0.1-18	35	3.00	4.00 **	10	2.5:1	200	LN5 ▲
CBLU1201838	0.1-20	18	2.50	3.80	10	2.5:1	175	LN3 ▲
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 ▲
CBLU5022325	0.5-2	23	1.00	2.50	12	2:1	150	LN3 ▲
CBLU5023230	0.5-2	32	1.25	3.00	15	2:1	200	LN4 ▲
CBLU5023830	0.5-2	38	1.25	3.00	15	2:1	240	LN4 ▲
CBLU5022125	0.5-2	21	1.00	2.50	18	2:1	200	LN3 ▲
CBLU5023425	0.5-2	34	1.00	2.50	18	2:1	250	LN4 ▲
CBLU5022435	0.5-2	24	1.00	3.50	20	2:1	240	LN3 ▲
CBLU5023135	0.5-2	31	1.00	3.50	20	2:1	260	LN3 ▲
CBLU5024035	0.5-2	40	1.25	3.50	20	2:1	320	LN5 ▲
CBLU5042030	0.5-4	20	1.00	3.00	12	2:1	120	LN3 ▲
CBLU5042630	0.5-4	26	1.25	3.00	12	2:1	180	LN3 ▲
CBLU5043030	0.5-4	30	1.50	3.00	12	2:1	240	LN3 ▲
CBLU5042240	0.5-4	22	1.00	4.00	15	2:1	180	LN3 ▲
CBLU5043140	0.5-4	31	1.50	4.00	18	2:1	240	LN4 ▲
CBLU5044040	0.5-4	40	1.5	4.00	18	2:1	300	LN4 ▲
CBLU5062645	0.5-6	26	1.50	4.50	12	2:1	225	LN3 ▲
CBLU5064045	0.5-6	40	2.00	4.50	12	2:1	330	LN4 ▲
CBLU5062745	0.5-6	27	1.50	4.50	15	2:1	225	LN3 ▲
CBLU5064145	0.5-6	41	2.00	4.50	15	2:1	330	LN4 ▲
CBLU5082550	0.5-8	25	1.75	5.00	12	2.5:1	225	LN3 ▲
CBLU5083750	0.5-8	37	2.00	5.00	12	2.5:1	330	LN4 ▲
CBLU5082450	0.5-8	24	1.75	5.00	15	2.5:1	225	LN3 ▲
CBLU5083950	0.5-8	39	2.00	5.00	15	2.5:1	330	LN4 ▲
CBLU5122050	0.5-12	20	2.00	5.00	12	2.5:1	225	LN3 ▲
CBLU5123050	0.5-12	30	2.25	5.00	12	2.5:1	330	LN4 ▲
CBLU5124050	0.5-12	40	2.50	5.00	12	2.5:1	450	LN4 ▲
CBLU5122150	0.5-12	21	2.00	5.00	15	2.5:1	225	LN3 ▲
CBLU5123150	0.5-12	31	2.25	5.00	15	2.5:1	330	LN4 ▲
CBLU5124150	0.5-12	41	2.25	5.00	15	2.5:1	450	LN4 ▲
CBLU5181550	0.5-18	15	2.75	5.00	10	2.5:1	150	LN3 ▲
CBLU5182060	0.5-18	20	3.25	6.00	12	2.5:1	310	LN3 ▲
CBLU5182560	0.5-18	25	3.75	6.00	12	2.5:1	370	LN4 ▲
CBLU5183060	0.5-18	30	3.75	6.00	12	2.5:1	430	LN4 ▲
CBLU5183530	0.5-18	35	2.75	3.00	10	2.5:1	225	LN4 ▲
CBLU5184540	0.5-18	45	2.50	4.00	8	2.5:1	250	LN4 ▲
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 ▲
CBL01022616	1-2	26	1.00	1.60	10	2.0:1	100	LN3 ▲



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CBL01022420	1-2	24	1.00	2.00	12	2.0:1	150	LN3 ▲
CBL01023225	1-2	32	1.00	2.50	12	2.0:1	180	LN4 ▲
CBL01024030	1-2	42	1.25	3.00	12	2.0:1	240	LN5 ▲
CBL01022825	1-2	28	1.00	2.50	18	2.0:1	250	LN4 ▲
CBL01024130	1-2	41	1.25	3.00	18	2.0:1	350	LN5 ▲
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 ▲
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 ▲
CBL02043020	2-4	30	1.25	2.00	12	2:1	240	LN3 ▲
CBL02043206	2-4	32	1.00	0.60	10	2:1	125	LN4 ▲
CBL02044020	2-4	40	1.25	2.00	15	2:1	300	LN4 ▲
CBL02042325	2-4	23	1.00	2.50	18	2:1	240	LN4 ▲
CBL02042925	2-4	29	1.25	2.50	18	2:1	300	LN4 ▲
CBL02043925	2-4	39	1.50	2.50	18	2:1	360	LN5 ▲
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 ▲
CBL02063030	2-6	30	1.50	3.00	12	2:1	220	LN4 ▲
CBL02064030	2-6	40	2.00	3.00	12	2:1	300	LN5 ▲
CBL02062335	2-6	23	1.00	3.50	18	2:1	200	LN3 ▲
CBL02062935	2-6	29	1.50	3.50	18	2:1	250	LN4 ▲
CBL02063935	2-6	39	2.00	3.50	18	2:1	360	LN5 ▲
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 ▲
CBL02082235	2-8	22	1.00	3.50	12	2:1	180	LN3 ▲
CBL02083035	2-8	30	1.50	3.50	12	2:1	240	LN4 ▲
CBL02084035	2-8	40	2.00	3.50	12	2:1	300	LN5 ▲
CBL02082425	2-8	24	1.50	2.50	15	2:1	150	LN3 ▲
CBL02083025	2-8	30	1.50	2.50	15	2:1	200	LN4 ▲
CBL02084225	2-8	42	1.50	2.50	15	2:1	300	LN4 ▲
CBL02082525	2-8	25	1/50	2.50	18	2:1	175	LN3 ▲
CBL02082140	2-8	21	1.00	4.00	18	2:1	250	LN3 ▲
CBL02082940	2-8	29	2.00	4.00	18	2:1	300	LN4 ▲
CBL02083940	2-8	39	2.00	4.00	18	2:1	360	LN5 ▲
CBL02083230	2-8	32	1.50	3.00	20	2:1	300	LN4 ▲



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CBL02084230	2-8	42	1.50	3.00	20	2:1	350	LN4 ▲
CBL02084530	2-8	45	1.50	3.00	20	2:1	400	LN5 ▲
CBL02102045	2-10	20	2.00	4.50	12	2:1	200	LN3 ▲
CBL02103045	2-10	30	2.50	4.50	12	2:1	300	LN4 ▲
CBL02102047	2-10	20	2.00	4.75	18	2:1	250	LN3 ▲
CBL02103047	2-10	30	2.50	4.75	18	2:1	350	LN4 ▲
CBL02121950	2-12	19	2.00	5.00	12	2:1	200	LN3 ▲
CBL02122750	2-12	27	2.00	5.00	12	2:1	300	LN4 ▲
CBL02123650	2-12	36	2.50	5.00	12	2:1	375	LN5 ▲
CBL02121855	2-12	18	2.50	5.50	18	2:1	250	LN3 ▲
CBL02122655	2-12	26	2.50	5.50	18	2:1	350	LN4 ▲
CBL02123555	2-12	35	2.50	5.50	18	2:1	400	LN5 ▲
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 ▲
CBL02181445	2-18	14	1.50	4.50	9	2.2:1	100	LN3 ▲
CBL02182235	2-18	22	2.00	3.50	8	2.2:1	160	LN3 ▲
CBL02183235	2-18	32	2.00	3.50	8	2.2:1	200	LN4 ▲
CBL02183145	2-18	31	2.00	4.50	15	2.2:1	325	LN4 ▲
CBL02182045	2-18	20	2.00	4.50	18	2.2:1	350	LN3 ▲
CBL02181860	2-18	18	2.50	6.00	12	2.3:1	200	LN3 ▲
CBL02182460	2-18	24	3.00	6.00	12	2.3:1	300	LN3 ▲
CBL02183060	2-18	30	3.50	6.00	12	2.3:1	350	LN4 ▲
CBL02183560	2-18	35	3.75	6.00	12	2.3:1	400	LN4 ▲
CBL02181760	2-18	17	2.75	6.00	15	2.3:1	275	LN3 ▲
CBL02182360	2-18	23	3.25	6.00	15	2.3:1	325	LN3 ▲
CBL02182960	2-18	29	3.75	6.00	15	2.3:1	375	LN4 ▲
CBL02202070	2-20	20	2.50	7.00	12	2.5:1	275	LN3 ▲
CBL02202570	2-20	25	2.75	7.00	12	2.5:1	350	LN4 ▲
CBL02203070	2-20	30	3.00	7.00	12	2.5:1	425	LN4 ▲
CBL02203570	2-20	35	3.25	7.00	12	2.5:1	500	LN6 ▲
CBL02261590	2-26.5	15	2.50	9.00	12	2.5:1	275	LN3 ▲
CBL02262290	2-26.5	22	3.00	9.00	12	2.5:1	400	LN4 ▲
CBL02262960	2-26.5	29	3.50	6.00	12	2.5:1	500	LN5 ▲
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
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 ▲
CBL03143040	3.7-14.5	30	2.50	4.00	12	2:1	225	LN4 ▲
CBL03144040	3.7-14.5	40	3.00	4.00	12	2:1	300	LN5 ▲
CBL03141940	3.7-14.5	19	2.00	4.00	18	2:1	150	LN3 ▲
CBL03141940	3.7-14.5	29	2.50	4.00	18	2:1	225	LN4 ▲
CBL03143940	3.7-14.5	39	3.00	4.00	18	2:1	300	LN5 ▲
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 ▲
CBL04082915	4-8	29	1.50	1.50	15	2.2:1	180	LN3 ▲
CBL04083025	4-8	30	1.50	2.50	18	2:1	230	LN4 ▲
CBL04083708	4-8	37	1.00	0.80	10	2:1	125	LN4 ▲
CBL04082430	4-8	24	1.00	3.00	12	2:1	180	LN3 ▲
CBL04083230	4-8	32	1.50	3.00	12	2:1	240	LN4 ▲
CBL04084030	4-8	40	1.50	3.00	12	2:1	300	LN5 ▲
CBL04082330	4-8	23	1.00	3.00	18	2:1	250	LN3 ▲
CBL04083130	4-8	31	1.50	3.00	18	2:1	300	LN4 ▲
CBL04083930	4-8	39	1.50	3.00	18	2:1	350	LN5 ▲
CBL04101025	4-10.5	10	1.50	2.50	8	2:1	75	LN2 ▲
CBL04101925	4-10.5	19	1.50	2.50	10	2:1	140	LN3 ▲
CBL04102825	4-10.5	28	1.50	2.50	13	2:1	200	LN4 ▲
CBL04104325	4-10.5	43	1.50	2.50	15	2:1	300	LN5 ▲
CBL04102340	4-10.5	23	1.25	4.00	12	2:1	250	LN3 ▲
CBL04103440	4-10.5	34	1.50	4.00	12	2:1	320	LN4 ▲
CBL04102240	4-10.5	22	1.25	4.00	18	2:1	300	LN3 ▲
CBL04103340	4-10.5	33	1.50	4.00	18	2:1	420	LN4 ▲
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 ▲
CBL04123340	4-12	33	2.00	4.00	12	2:1	225	LN4 ▲
CBL04124440	4-12	44	2.50	4.00	12	2:1	300	LN5 ▲
CBL04122140	4-12	21	1.50	4.00	18	2:1	150	LN3 ▲
CBL04123240	4-12	32	2.00	4.00	18	2:1	225	LN4 ▲
CBL04124340	4-12	43	2.50	4.00	18	2:1	300	LN5 ▲
CBL04182050	4-18	20	3.50	5.00	10	2.5:1	185	LN4 ▲
CBL05102718	5-10	27	1.25	1.8	10	2:1	150	LN
CBL05131025	5-13	10	1.50	2.50	10	2:1	75	LN2 ▲
CBL05132025	5-13	20	1.50	2.50	15	2:1	140	LN3 ▲
CBL05133225	5-13	32	1.50	2.50	15	2:1	180	LN4 ▲
CBL05132135	5-13	21	1.50	3.50	17	2:1	140	LN3 ▲
CBL05133135	5-13	31	1.50	3.50	19	2:1	290	LN4 ▲
CBL05134335	5-13	43	1.50	3.50	19	2:1	320	LN5 ▲
CBL05135235	5-13	52	1.50	3.50	19	2:1	380	LN6 ▲
CBL05152040	5-15	20	1.50	4.00	12	2:1	150	LN3 ▲



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



## 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 ▲
CBL06201650	6-20	16	2:00	5.00	12	2:1	200	LN3 ▲
CBL06202350	6-20	23	2.00	5.00	12	2:1	250	LN4 ▲
CBL06203150	6-20	31	3.00	5.00	12	2:1	300	LN5 ▲
CBL06201550	6-20	15	2.00	5.00	17	2:1	235	LN3 ▲
CBL06202250	6-20	22	2.50	5.00	17	2:1	170	LN4 ▲
CBL06203050	6-20	30	3.00	5.00	17	2:1	170	LN5 ▲
CBL07121025	7-12.4	10	1.00	2.50	9	2:1	75	LN2 ▲
CBL07121825	7-12.4	18	1.50	2.50	15	2:1	125	LN3 ▲
CBL07122825	7-12.4	28	1.50	2.50	15	2:1	190	LN4 ▲
CBL07123825	7-12.4	38	1.50	2.50	15	2:1	315	LN5 ▲
CBL07124725	7-12.4	47	1.50	2.50	15	2:1	380	LN6 ▲
CBL07122230	7-12.4	22	1.50	3.00	20	2:1	260	LN3 ▲
CBL07123230	7-12.4	32	1.50	3.00	20	2:1	310	LN4 ▲
CBL07123630	7-12.4	36	1.50	3.00	20	2:1	350	LN5 ▲
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 ▲
CBL08122035	8-12	20	1.00	3.5	12	2:1	150	LN3 ▲
CBL08122835	8-12	28	1.25	3.5	12	2:1	200	LN4 ▲
CBL08123210	8-12	32	1.00	1.00	10	2:1	125	LN4 ▲
CBL08123635	8-12	36	1.50	3.5	12	2:1	250	LN5 ▲
CBL08124235	8-12	42	1.75	3.5	12	2:1	300	LN5 ▲
CBL08121935	8-12	19	1.00	3.5	18	2:1	200	LN3 ▲
CBL08122735	8-12	27	1.25	3.5	18	2:1	250	LN4 ▲
CBL08123535	8-12	35	1.50	3.5	18	2:1	320	LN5 ▲
CBL08124135	8-12	41	1.75	3.50	18	2:1	390	LN5 ▲
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 ▲
CBL08182840	8-18	28	1.75	4.00	12	2:1	200	LN4 ▲
CBL08183622	8-18	36	2.00	2.20	10	2:1	200	LN5 ▲
CBL08183740	8-18	37	2.00	4.00	12	2:1	250	LN5 ▲
CBL08184140	8-18	41	2.25	4.00	12	2:1	330	LN5 ▲
CBL08181840	8-18	18	1.50	4.00	18	2:1	220	LN3 ▲
CBL08182740	8-18	27	1.75	4.00	18	2:1	290	LN4 ▲
CBL08183640	8-18	36	2.00	4.00	18	2:1	330	LN5 ▲
CBL08184040	8-18	40	2.25	4.00	18	2:1	400	LN5 ▲
CBL10201745	10-20	17	1.25	4.50	12	2:1	150	LN3 ▲
CBL10202245	10-20	22	1.50	4.50	12	2:1	200	LN4 ▲
CBL10203545	10-20	35	2.00	4.50	12	2:1	250	LN5 ▲
CBL10203945	10-20	39	2.00	4.50	12	2:1	300	LN5 ▲
CBL10201645	10-20	16	1.50	4.50	18	2:1	260	LN3 ▲
CBL10202545	10-20	25	2.00	4.50	18	2:1	340	LN4 ▲



## 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 ▲
CBL10203845	10-20	38	2.25	4.50	18	2:1	500	LN5 ▲
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 ▲
CBL12182028	12-18	20	1.00	2.80	13	2:1	190	LN3 ▲
CBL12182628	12-18	26	1.00	2.80	15	2:1	260	LN4 ▲
CBL12183228	12-18	32	1.00	2.80	15	2:1	310	LN5 ▲
CBL12183618	12-18	36	1.50	1.80	10	2:1	150	LN5 ▲
CBL12183828	12-18	38	1.00	2.80	15	2:1	360	LN5 ▲
CBL12184428	12-18	44	1.00	2.80	15	2:1	410	LN6 ▲
CBL12181635	12-18	16	1.00	3.50	10	2:1	100	LN3 ▲
CBL12182040	12-18	20	1.00	4.00	12	2:1	150	LN3 ▲
CBL12182940	12-18	29	1.25	4.00	12	2:1	200	LN4 ▲
CBL12183840	12-18	38	1.50	4.00	12	2:1	250	LN4 ▲
CBL12184240	12-18	42	1.75	4.00	12	2:1	300	LN5 ▲
CBL12181940	12-18	19	1.25	4.00	18	2:1	250	LN3 ▲
CBL12182840	12-18	28	1.50	4.00	18	2:1	300	LN4 ▲
CBL12183740	12-18	37	1.75	4.00	18	2:1	350	LN4 ▲
CBL12201845	12-20	18	1.25	4.50	12	2:1	150	LN3 ▲
CBL12202445	12-20	24	1.50	4.50	12	2:1	200	LN4 ▲
CBL12203045	12-20	30	1.75	4.50	12	2:1	250	LN4 ▲
CBL12203645	12-20	36	2.00	4.50	12	2:1	300	LN5 ▲
CBL12202345	12-20	23	1.50	4.50	18	2:1	260	LN4 ▲
CBL12202945	12-20	29	1.75	4.50	18	2:1	340	LN4 ▲
CBL12203545	12-20	35	2.00	4.50	18	2:1	420	LN5 ▲
CBL12204045	12-20	40	2.25	4.50	18	2:1	500	LN5 ▲
CBL18263030	18-26.5	30	2.50	3.00	10	2.2:1	250	LN4 ▲
CBL18262235	18-26.5	22	1.25	3.50	10	2:1	200	LN4 ▲
CBL18262735	18-26.5	27	1.25	3.50	10	2:1	300	LN5 ▲
CBL18261850	18-26.5	18	1.00	5.00	10	2:1	200	LN4 ▲
CBL18262850	18-26.5	28	1.25	5.00	12	2:1	260	LN5 ▲
CBL18263550	18-26.5	35	1.50	5.00	12	2:1	310	LN6 ▲
CBL18264150	18-26.5	41	2.00	5.00	12	2:1	390	LN7 ▲
CBL18263150	18-26.5	31	1.75	5.00	15	2:1	500	LN5 ▲
CBL18263750	18-26.5	37	2.00	5.00	15	2:1	550	LN6 ▲
CBL18261855	18-26.5	18	1.50	5.50	12	2:1	200	LN3 ▲
CBL18262455	18-26.5	24	2.50	5.50	12	2:1	250	LN3 ▲
CBL18263035	18-26.5	30	2.50	3.50	10	2:1	250	LN3 ▲
CBL18263055	18-26.5	30	2.50	5.50	12	2:1	300	LN3▲
CBL18263555	18-26.5	35	2.50	5.50	12	2:1	350	LN5 ▲
CBL18261755	18-26.5	17	1.50	5.50	15	2:1	300	LN4 ▲
CBL18262355	18-26.5	23	2.00	5.50	15	2:1	350	LN4 ▲



## Broadband Low Noise Amplifiers

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CBL18262355	18-26.5	50	3.00	3.50	10	2.5:1	450	LN5 ▲
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	MK3
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	HN3
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	MV2
CBL57653055	57-65	30	2.50	5.5	9	2:1	110	MV2
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

▲ SMALLER CASES (HN SERIES) ARE ALSO AVAILABLE

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.