

## Broadband Low Noise Amplifiers

### FEATURES:

- ❖ Coverage From 0.01 to 110.0 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
CBLH3183032	0.003-18	30	1.50	3.2 Typ @ mid Band	10	2:1	210@15V	FK4
CBL1503060	0.01-50	30	-	6.0 ****	10 Psat Typ	2.5:1	200@12V	FV4
CBLU1011313	0.1-1	13	1.00	1.30 **	10	2.5:1	85	HN4
CBLU1023612	0.1-2	36	1.00	1.20 **	10	2:1	150	HN4
CBLU1033213	0.1-3	32	1.00	1.30 **	10	2:1	200	LN5
CBLU1042615	0.1-4	26	1.25	1.50 **	10	2:1	150	HN4
CBLU1063020	0.1-6	30	1.50	2.00 **	10	2:1	175	HN4
CBLU1083025	0.1-8	30	1.50	2.50 **	10	2.5:1	175	HN3
CBLU1102828	0.1-10	28	1.50	2.80 **	10	2:1	175	HN4
CBLU1122630	0.1-12	26	1.50	3.00 **	10	2:1	175	HN4 ▲
CBLU1142232	0.1-14	22	2.00	3.20 **	10	2.5:1	200	HN4 ▲
CBLU1162134	0.1-16	21	2.00	3.40 **	10	2.5:1	200	HN4 ▲
CBLU1181835	0.1-18	18	2.00	3.50 **	10	2.5:1	200	HN3 ▲
CBLU1183540	0.1-18	35	3.00	4.00 **	10	2.5:1	200	HN5 ▲
CBLU1201838	0.1-20	18	2.50	3.80 **	10	2.5:1	175	HN3 ▲
CBLU1221645	0.1-22	16	2.50	4.50 ***	10	2.5:1	175	MK3
CBLU1241645	0.1-24	16	2.50	4.50 ***	10	2.5:1	175	MK3
CBLU1261645	0.1-26.5	16	2.50	4.50 ***	10	2.5:1	175	MK3
CBLU1281645	0.1-28	16	2.50	4.50 ***	10	2.7:1	175	MK2
CBLU1301545	0.1-30	15	2.50	4.50 ***	7	3.0:1	175	MK3
CBLU1401450	0.1-40	14	4.00	5.00 *** (Typ)	6	3.5:1	275	MK3



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CBLU1402545	0.1-40	25	3.00	5(Typ)	8	2:1	150	MK2
CBLU1502565	0.1-50	25	5.00	6.5	8	2.5:1	150	MV2
CBLU1601865	0.1-60	18	5.00	6.5(Typ)	5	2.5:1	150	MV2
CBLU1U23611	0.12-0.25	36	1.00	1.10	10	2:1	120	HN3
CBLU2053610	0.25-5	36	1.50	1.00 typ.	10	2:1	180	LN5
CBLU3012510	0.3-1.4	25	1.00	1.00	10	2:1	100	HN3
CBLU5012408	0.5-1	24	1.00	0.80	10	2:1	100	HN3
CBLU5021125	0.5-2	11	0.75	2.50	10	2:1	100	HN2 ▲
CBLU5023610	0.5-2	36	1.00	1.00	10	2:1	130	HN4
CBLU5022325	0.5-2	23	1.00	2.50	12	2:1	150	HN3 ▲
CBLU5023230	0.5-2	32	1.25	3.00	15	2:1	200	HN4 ▲
CBLU5023830	0.5-2	38	1.25	3.00	15	2:1	240	HN4 ▲
CBLU5022125	0.5-2	21	1.00	2.50	18	2:1	200	HN3 ▲
CBLU5023425	0.5-2	34	1.00	2.50	18	2:1	250	HN4 ▲
CBLU5022435	0.5-2	24	1.00	3.50	20	2:1	240	HN3 ▲
CBLU5023135	0.5-2	31	1.00	3.50	20	2:1	260	HN3 ▲
CBLU5024035	0.5-2	40	1.25	3.50	20	2:1	320	HN5 ▲
CBLU5042030	0.5-4	20	1.00	3.00	12	2:1	120	HN3 ▲
CBLU5042630	0.5-4	26	1.25	3.00	12	2:1	180	HN3 ▲
CBLU5043030	0.5-4	30	1.50	3.00	12	2:1	240	HN3 ▲
CBLU5042240	0.5-4	22	1.00	4.00	15	2:1	180	HN3 ▲
CBLU5043140	0.5-4	31	1.50	4.00	18	2:1	240	HN4 ▲
CBLU5044040	0.5-4	40	1.5	4.00	18	2:1	300	HN4 ▲
CBLU5062645	0.5-6	26	1.50	4.50	12	2:1	225	HN3 ▲
CBLU5064145	0.5-6	41	2.00	4.50	20	2:1	400	HN5 ▲
CBLU5062745	0.5-6	27	1.50	4.50	20	2:1	300	HN4 ▲
CBLU5064145	0.5-6	41	2.00	4.50	15	2:1	330	HN4 ▲
CBLU5082550	0.5-8	25	1.75	5.00	12	2.5:1	225	HN3 ▲
CBLU5083750	0.5-8	37	2.00	5.00	12	2.5:1	330	HN4 ▲
CBLU5082450	0.5-8	24	1.75	5.00	15	2.5:1	225	HN3 ▲
CBLU5083950	0.5-8	39	2.00	5.00	15	2.5:1	330	HN4 ▲
CBLU5122050	0.5-12	20	2.00	5.00	12	2.5:1	225	HN3 ▲
CBLU5123050	0.5-12	30	2.25	5.00	12	2.5:1	330	HN4 ▲
CBLU5124050	0.5-12	40	2.50	5.00	12	2.5:1	450	HN4 ▲
CBLU5122150	0.5-12	21	2.00	5.00	15	2.5:1	225	HN3 ▲
CBLU5123150	0.5-12	31	2.25	5.00	15	2.5:1	330	HN4 ▲
CBLU5124150	0.5-12	41	2.25	5.00	15	2.5:1	450	HN4 ▲
CBLU5184540	0.5-18	45	2.50	4.00	8	2.5:1	250	LN4 ▲
CBLU5181550	0.5-18	15	2.75	5.00	10	2.5:1	150	HN3 ▲
CBLU5183530	0.5-18	35	2.75	3.00	10	2.5:1	225	HN5 ▲
CBLU5182060	0.5-18	20	3.25	6.00	12	2.5:1	310	HN3 ▲



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CBLU5182560	0.5-18	25	3.75	6.00	12	2.5:1	370	HN4 ▲
CBLU5183060	0.5-18	30	3.75	6.00	12	2.5:1	430	HN4 ▲
CBL01022616	1-2	26	1.00	1.60	10	2.0:1	100	HN3 ▲
CBL01023407	1-2	34	1.00	0.70	10	2.0:1	130	HN4
CBL01023805	1-2	38	1.00	0.50	10	2:1	150	HN4 ▲
CBL01022420	1-2	24	1.00	2.00	12	2.0:1	150	HN3 ▲
CBL01023225	1-2	32	1.00	2.50	12	2.0:1	180	HN4 ▲
CBL01024030	1-2	42	1.25	3.00	12	2.0:1	240	HN5 ▲
CBL01022825	1-2	28	1.00	2.50	18	2.0:1	250	HN4 ▲
CBL01024130	1-2	41	1.25	3.00	18	2.0:1	350	HN5 ▲
CBL01032811	1-3	28	1.50	1.1	8	2.5:1	150	HN4
CBL01042613	1-4	26	1.75	1.3	8	2.5:1	175	HN4
CBL01183825A	1-18	38-43	2.5	2.5	20	2.5:1	300	*
CBL01263345	1-26	33	2.5 Typ	4.5Δ	10	2:1 Typ	180	MK3
CBL01401550	1-40	15	3.00	5.00	8	2.2:1	200	MK2
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
CBL01403070	1-40	30	6.00	7.00	8	2.25:1	400	MK4
CBL01403060	1-40	30	5.00	6.00	10	2.25:1	350	MK4
CBL01022310	1.2-2.4	23	1.00	1.0	8	2.0:1	100	HN2
CBL02042618	2-4	26	1.00	1.80	10	2:1	100	HN4 ▲
CBL02042810	2-4	28	1.00	1.0	10	2:1	125	HN3
CBL02043206	2-4	32	1.00	0.60	10	2:1	125	HN4 ▲
CBL02042420	2-4	24	1.00	2.00	12	2:1	180	HN4 ▲
CBL02043020	2-4	30	1.25	2.00	12	2:1	240	HN3 ▲
CBL02044020	2-4	40	1.25	2.00	15	2:1	300	HN4 ▲
CBL02042325	2-4	23	1.00	2.50	18	2:1	240	HN4 ▲
CBL02042925	2-4	29	1.25	2.50	18	2:1	300	HN4 ▲
CBL02062616	2-6	26	1.00	1.60	10	2.0:1	125	HN3
CBL02062430	2-6	24	1.00	3.00	12	2:1	160	HN3 ▲
CBL02063030	2-6	30	1.50	3.00	12	2:1	220	HN3
CBL02064030	2-6	40	2.00	3.00	12	2:1	300	HN4
CBL02062335	2-6	23	1.00	3.50	18	2:1	200	HN3 ▲
CBL02062935	2-6	29	1.50	3.50	18	2:1	250	HN4 ▲
CBL02063935	2-6	39	2.00	3.50	18	2:1	360	HN5 ▲
CBL02081425	2-8	14	1.50	2.50	10	2:1	70	HN2 ▲
CBL02083020	2-8	30	1.50	2.00	10	2:1	175	HN3
CBL02082235	2-8	22	1.00	3.50	12	2:1	180	HN3 ▲
CBL02083035	2-8	30	1.50	3.50	12	2:1	240	HN4 ▲
CBL02084035	2-8	40	2.00	3.50	12	2:1	300	HN5 ▲
CBL02082425	2-8	24	1.50	2.50	15	2:1	150	HN3 ▲
CBL02083025	2-8	30	1.50	2.50	15	2:1	200	HN4 ▲



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CBL02084225	2-8	42	1.50	2.50	15	2:1	300	HN4 ▲
CBL02082140	2-8	21	1.00	4.00	18	2:1	250	HN3 ▲
CBL02082525	2-8	25	1/50	2.50	18	2:1	175	HN3 ▲
CBL02082940	2-8	29	2.00	4.00	18	2:1	300	HN4 ▲
CBL02083940	2-8	39	2.00	4.00	18	2:1	360	HN5 ▲
CBL02083230	2-8	32	1.50	3.00	20	2:1	300	HN4 ▲
CBL02084230	2-8	42	1.50	3.00	20	2:1	350	HN4 ▲
CBL02084530	2-8	45	1.50	3.00	20	2:1	400	HN5 ▲
CBL02102045	2-10	20	2.00	4.50	12	2:1	200	HN3 ▲
CBL02103045	2-10	30	2.50	4.50	12	2:1	300	HN4 ▲
CBL02102047	2-10	20	2.00	4.75	18	2:1	250	HN3 ▲
CBL02103047	2-10	30	2.50	4.75	18	2:1	350	HN4 ▲
CBL02121950	2-12	19	2.00	5.00	12	2:1	200	HN3 ▲
CBL02122750	2-12	27	2.00	5.00	12	2:1	300	HN4 ▲
CBL02123650	2-12	36	2.50	5.00	12	2:1	375	HN5 ▲
CBL02121855	2-12	18	2.50	5.50	18	2:1	250	HN3 ▲
CBL02122655	2-12	26	2.50	5.50	18	2:1	350	HN4 ▲
CBL02123555	2-12	35	2.50	5.50	18	2:1	400	HN5 ▲
CBL02180745	2-18	7	1.50	4.50	8	2.2:1	65	HN2 ▲
CBL02182235	2-18	22	2.00	3.50	8	2.2:1	160	HN3 ▲
CBL02183235	2-18	32	2.00	3.50	8	2.2:1	200	HN4 ▲
CBL02181445	2-18	14	1.50	4.50	9	2.2:1	100	HN3 ▲
CBL02182035	2-18	20	2.50	3.50	10	2.5:1	100	HN3
CBL02181860	2-18	18	2.50	6.00	12	2.3:1	200	HN3 ▲
CBL02182460	2-18	24	3.00	6.00	12	2.3:1	300	MSA3
CBL02183060	2-18	30	3.50	6.00	12	2.3:1	350	HN4 ▲
CBL02183560	2-18	35	3.75	6.00	12	2.3:1	400	HN4 ▲
CBL02181760	2-18	17	2.75	6.00	15	2.3:1	275	HN3 ▲
CBL02182360	2-18	23	3.25	6.00	15	2.3:1	325	HN3 ▲
CBL02182960	2-18	29	3.75	6.00	15	2.3:1	375	HN4 ▲
CBL02183145	2-18	31	2.00	4.50	15	2.2:1	325	HN4 ▲
CBL02182045	2-18	20	2.00	4.50	18	2.2:1	350	HN3 ▲
CBL02202542	2-20	25	2.50	4.20	10	2:1/2.5:1 Typ	150@12V	MSA3
CBL02202070	2-20	20	2.50	7.00	12	2:1	275	HN3 ▲
CBL02202570	2-20	25	2.75	7.00	12	2:1	350	HN4 ▲
CBL02203070	2-20	30	3.00	7.00	12	2:1	425	HN4 ▲
CBL02203570	2-20	35	3.25	7.00	12	2:1	500	HN6 ▲
CBL02261590	2-26.5	15	2.50	9.00	12	2:1	275	HN3 ▲
CBL02262260	2-26.5	22	3.00	6.00	12	2:1	150	HN3 ▲
CBL02262290	2-26.5	22	3.00	9.00	12	2:1	400	HN3 ▲



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CBL02262960	2-26.5	29	3.50	6.00	12	2:1	500	HN4 ▲
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
CBL02503055	2-50	30	4.0	5.5	5	2.5:1	200@12V	MV3
CBL02053215	2.6-5.2	32	1.25	1.5	10	2:1	150	HN3
CBL03142040	3.7-14.5	20	2.00	4.00	12	2:1	150	HN3 ▲
CBL03143040	3.7-14.5	30	2.50	4.00	12	2:1	225	HN4 ▲
CBL03144040	3.7-14.5	40	3.00	4.00	12	2:1	300	HN5 ▲
CBL03141940	3.7-14.5	19	2.00	4.00	18	2:1	150	HN3 ▲
CBL03141940	3.7-14.5	29	2.50	4.00	18	2:1	225	HN4 ▲
CBL03143940	3.7-14.5	39	3.00	4.00	18	2:1	300	HN5 ▲
CBL04082115	4-8	21	1.50	1.50	8	2.2:1	110	HN3 ▲
CBL04083412	4-8	34	1.00	1.2	10	2:1	175	HN3
CBL04083708	4-8	37	1.00	0.80	10	2:1	125	HN4 ▲
CBL04082430	4-8	24	1.00	3.00	12	2:1	180	HN3 ▲
CBL04083230	4-8	32	1.50	3.00	12	2:1	240	HN4 ▲
CBL04084030	4-8	40	1.50	3.00	12	2:1	300	HN5 ▲
CBL04082915	4-8	29	1.50	1.50	15	2.2:1	180	HN3 ▲
CBL04082330	4-8	23	1.00	3.00	18	2:1	250	HN3 ▲
CBL04083025	4-8	30	1.50	2.50	18	2:1	230	HN4 ▲
CBL04083130	4-8	31	1.50	3.00	18	2:1	300	HN4 ▲
CBL04083930	4-8	39	1.50	3.00	18	2:1	350	HN5 ▲
CBL04101025	4-10.5	10	1.50	2.50	8	2:1	75	HN2 ▲
CBL04101925	4-10.5	19	1.50	2.50	10	2:1	140	HN3 ▲
CBL04102340	4-10.5	23	1.25	4.00	12	2:1	250	HN3 ▲
CBL04103440	4-10.5	34	1.50	4.00	12	2:1	320	HN4 ▲
CBL04102825	4-10.5	28	1.50	2.50	13	2:1	200	HN4 ▲
CBL04104325	4-10.5	43	1.50	2.50	15	2:1	300	HN5 ▲
CBL04102240	4-10.5	22	1.25	4.00	18	2:1	300	HN3 ▲
CBL04103340	4-10.5	33	1.50	4.00	18	2:1	420	HN4 ▲
CBL04122225	4-12	22	1.00	2.50	10	2:1	175	MSA6
CBL04122240	4-12	22	1.50	4.00	12	2:1	150	HN3 ▲
CBL04123340	4-12	33	2.00	4.00	12	2:1	225	HN4 ▲
CBL04124440	4-12	44	2.50	4.00	12	2:1	300	HN5 ▲
CBL04122140	4-12	21	1.50	4.00	18	2:1	150	HN3 ▲
CBL04123240	4-12	32	2.00	4.00	18	2:1	225	HN4 ▲
CBL04124340	4-12	43	2.50	4.00	18	2:1	300	HN5 ▲
CBL04182050	4-18	20	3.50	5.00	10	2.5:1	185	HN4 ▲



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CBL05102718	5-10	27	1.25	1.8	10	2:1	150	HN3
CBL05131025	5-13	10	1.50	2.50	10	2:1	75	HN2 ▲
CBL05132025	5-13	20	1.50	2.50	15	2:1	140	HN3 ▲
CBL05133225	5-13	32	1.50	2.50	15	2:1	180	HN4 ▲
CBL05132135	5-13	21	1.50	3.50	17	2:1	140	HN3 ▲
CBL05133135	5-13	31	1.50	3.50	19	2:1	290	HN4 ▲
CBL05134335	5-13	43	1.50	3.50	19	2:1	320	HN5 ▲
CBL05135235	5-13	52	1.50	3.50	19	2:1	380	HN6 ▲
CBL05152040	5-15	20	1.50	4.00	12	2:1	150	HN3 ▲
CBL05153040	5-15	30	2.00	4.00	12	2:1	225	HN4 ▲
CBL05154040	5-15	40	2.50	4.00	12	2:1	300	HN5 ▲
CBL05151940	5-15	19	1.50	4.00	18	2:1	150	HN3▲
CBL05152940	5-15	29	2.00	4.00	18	2:1	225	HN4 ▲
CBL05153940	5-15	39	2.50	4.00	18	2:1	300	HN5 ▲
CBL06113012	6-11	30	1.00	1.2	5	2.3:1/2:1	90	MSA3
CBL06121025	6-12	10	1.00	2.50	8	2:1	75	HN2 ▲
CBL06122125	6-12	21	1.50	2.50	10	2:1	150	HN3 ▲
CBL06122219	6-12	22	1.00	1.9	10	2:1	175	HN3
CBL06122925	6-12	29	1.50	2.50	10	2:1	175	HN4 ▲
CBL06124025	6-12	40	1.50	2.50	10	2:1	225	HN5 ▲
CBL06125025	6-12	50	1.50	2.50	10	2:1	275	HN6 ▲
CBL06122035	6-12	20	1.50	3.5	12	2:1	150	HN3 ▲
CBL06122835	6-12	28	1.25	3.5	12	2:1	200	HN4 ▲
CBL06123835	6-12	38	1.50	3.5	12	2:1	270	HN5 ▲
CBL06121935	6-12	19	1.00	3.5	18	2:1	200	HN3 ▲
CBL06122735	6-12	27	1.25	3.5	18	2:1	270	HN4 ▲
CBL06123735	6-12	37	1.50	3.5	18	2:1	340	HN5 ▲
CBL06181023	6-18	10	1.50	2.30	8	2:1	80	HN3 ▲
CBL06182025	6-18	20	1.50	2.50	8	2:1	150	HN3 ▲
CBL06182527	6-18	25	1.50	2.70	8	2:1	190	HN4 ▲
CBL06182030	6-18	20	2.00	3.00	10	2.5:1	175	HN3
CBL06181840	6-18	18	1.00	4.00	12	2:1	150	HN3 ▲
CBL06182740	6-18	27	2.00	4.00	12	2:1	220	HN4 ▲
CBL06183640	6-18	36	2.50	4.00	12	2:1	250	HN5 ▲
CBL06184040	6-18	40	3.00	4.00	12	2:1	320	HN5 ▲
CBL06181430	6-18	14	1.50	3.00	13	2:1	140	HN3 ▲
CBL06182030	6-18	20	1.50	3.00	13	2:1	200	HN3 ▲
CBL06182525	6-18	25	1.50	2.50	13	2:1	190	HN4 ▲
CBL06183525	6-18	35	2.00	2.50	13	2:1/2.5:1 Typ	220@12V	MSA3
CBL06182630	6-18	26	1.50	3.00	15	2:1	260	HN4 ▲
CBL06182825	6-18	28	1.50	2.50	15	2:1	200	HN4 ▲
CBL06183225	6-18	32	1.50	2.50	15	2:1	275	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
CBL06183230	6-18	32	1.50	3.00	15	2:1	320	HN5 ▲
CBL06183825	6-18	38	1.50	2.50	15	2:1	350	HN5 ▲
CBL06183830	6-18	38	1.50	3.00	15	2:1	440	HN5 ▲
CBL06184425	6-18	44	1.50	2.50	15	2:1	420	HN6 ▲
CBL06184430	6-18	44	1.50	3.00	15	2:1	500	HN6 ▲
CBL06185030	6-18	50	1.50	3.00	15	2:1	350	HN6 ▲
CBL06183525	6-18	35	1.50	2.50	17	2:1	375	HN5 ▲
CBL06183730	6-18	37	1.50	3.00	17	2:1	295	HN5 ▲
CBL06181740	6-18	17	1.50	4.00	18	2:1	220	HN3 ▲
CBL06182640	6-18	26	2.00	4.00	18	2:1	290	HN4 ▲
CBL06183540	6-18	35	2.50	4.00	18	2:1	330	HN5 ▲
CBL06183940	6-18	39	3.00	4.00	18	2:1	400	HN5 ▲
CBL06201650	6-20	16	2:00	5.00	12	2:1	200	HN3 ▲
CBL06202350	6-20	23	2.00	5.00	12	2:1	250	HN4 ▲
CBL06203150	6-20	31	3.00	5.00	12	2:1	300	HN5 ▲
CBL06201550	6-20	15	2.00	5.00	17	2:1	235	HN3 ▲
CBL06202250	6-20	22	2.50	5.00	17	2:1	170	HN4 ▲
CBL06203050	6-20	30	3.00	5.00	17	2:1	170	HN5 ▲
CBL07121025	7-12.4	10	1.00	2.50	9	2:1	75	HN2 ▲
CBL07121825	7-12.4	18	1.50	2.50	15	2:1	125	MSA3
CBL07122825	7-12.4	28	1.50	2.50	15	2:1	190	HN4 ▲
CBL07123825	7-12.4	38	1.50	2.50	15	2:1	315	HN5 ▲
CBL07124725	7-12.4	47	1.50	2.50	15	2:1	380	HN6 ▲
CBL07122230	7-12.4	22	1.50	3.00	20	2:1	260	HN3 ▲
CBL07123230	7-12.4	32	1.50	3.00	20	2:1	310	HN4 ▲
CBL07123630	7-12.4	36	1.50	3.00	20	2:1	350	HN5 ▲
CBL08122225	8-12	22	1.00	2.5	10	2:1	100	HN3 ▲
CBL08123015	8-12	30	1.25	1.5	10	2:1	150	HN3
CBL08123210	8-12	32	1.00	1.00	10	2:1	125	HN4 ▲
CBL08122035	8-12	20	1.00	3.5	12	2:1	150	MSA3
CBL08122835	8-12	28	1.25	3.5	12	2:1	200	HN4 ▲
CBL08123635	8-12	36	1.50	3.5	12	2:1	250	HN5 ▲
CBL08124235	8-12	42	1.75	3.5	12	2:1	300	HN5 ▲
CBL08121935	8-12	19	1.00	3.5	18	2:1	200	MSA3
CBL08122735	8-12	27	1.25	3.5	18	2:1	250	HN4 ▲
CBL08123535	8-12	35	1.50	3.5	18	2:1	320	HN5 ▲
CBL08124135	8-12	41	1.75	3.50	18	2:1	390	HN5 ▲
CBL08162825	8-16	28	1.50	2.5	14	2:1	175	MSA4
CBL08182028	8-18	20	1.50	2.80	10	2:1	150	HN3
CBL08183622	8-18	36	2.00	2.20	10	2:1	200	HN5 ▲
CBL08181940	8-18	19	1.50	4.00	12	2:1	150	MSA3



## 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
CBL08182840	8-18	28	1.75	4.00	12	2:1	200	HN4 ▲
CBL08183740	8-18	37	2.00	4.00	12	2:1	250	HN5 ▲
CBL08184140	8-18	41	2.25	4.00	12	2:1	330	HN5 ▲
CBL08181840	8-18	18	1.50	4.00	18	2:1	220	MSA4
CBL08182740	8-18	27	1.75	4.00	18	2:1	290	HN4 ▲
CBL08183640	8-18	36	2.00	4.00	18	2:1	330	HN5 ▲
CBL08184040	8-18	40	2.25	4.00	18	2:1	400	HN5 ▲
CBL09142527	9.9-14.1	25	3.00	2.70	24	2.0:1	250	HN5
CBL10201745	10-20	17	1.25	4.50	12	2:1	150	HN3 ▲
CBL10202245	10-20	22	1.50	4.50	12	2:1	200	HN4 ▲
CBL10203545	10-20	35	2.00	4.50	12	2:1	250	MSA5
CBL10203945	10-20	39	2.00	4.50	12	2:1	300	MSA5
CBL10201645	10-20	16	1.50	4.50	18	2:1	260	HN3 ▲
CBL10202545	10-20	25	2.00	4.50	18	2:1	340	HN4 ▲
CBL10203445	10-20	34	2.00	4.50	18	2:1	420	HN5 ▲
CBL10203845	10-20	38	2.25	4.50	18	2:1	500	HN5 ▲
CBL12181635	12-18	16	1.00	3.50	10	2:1	100	HN3 ▲
CBL12182420	12-18	24	1.50	2.0	10	2:1	120	HN3
CBL12183618	12-18	36	1.50	1.80	10	2:1	150	HN5 ▲
CBL12182040	12-18	20	1.00	4.00	12	2:1	150	HN3 ▲
CBL12182940	12-18	29	1.25	4.00	12	2:1	200	HN4 ▲
CBL12183840	12-18	38	1.50	4.00	12	2:1	250	HN4 ▲
CBL12184240	12-18	42	1.75	4.00	12	2:1	300	HN5 ▲
CBL12181528	12-18	15	1.00	2.80	13	2:1	140	MSA3
CBL12182028	12-18	20	1.00	2.80	13	2:1	190	HN3 ▲
CBL12182628	12-18	26	1.00	2.80	15	2:1	260	HN4 ▲
CBL12183228	12-18	32	1.00	2.80	15	2:1	310	HN5 ▲
CBL12183828	12-18	38	1.00	2.80	15	2:1	360	HN5 ▲
CBL12184428	12-18	44	1.00	2.80	15	2:1	410	HN6 ▲
CBL12181940	12-18	19	1.25	4.00	18	2:1	250	MSA4
CBL12182840	12-18	28	1.50	4.00	18	2:1	300	HN4 ▲
CBL12183740	12-18	37	1.75	4.00	18	2:1	350	HN4 ▲
CBL12201845	12-20	18	1.25	4.50	12	2:1	150	MSA3
CBL12202445	12-20	24	1.50	4.50	12	2:1	200	HN4 ▲
CBL12203045	12-20	30	1.75	4.50	12	2:1	250	HN4 ▲
CBL12203645	12-20	36	2.00	4.50	12	2:1	300	HN5 ▲
CBL12202345	12-20	23	1.50	4.50	18	2:1	260	MSA6
CBL12202945	12-20	29	1.75	4.50	18	2:1	340	HN4 ▲
CBL12203545	12-20	35	2.00	4.50	18	2:1	420	HN5 ▲
CBL12204045	12-20	40	2.25	4.50	18	2:1	500	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
CBL18262027	18-26.5	20 Typ	1.50	2.70	7	2.5:1	80@12V	MSA3
CBL18261850	18-26.5	18	1.00	5.00	10	2:1	200	MSA3
CBL18262235	18-26.5	22	1.25	3.50	10	2:1	200	MSA3
CBL18262735	18-26.5	27	1.25	3.50	10	2:1	300	MSA3
CBL18263028	18-26.5	30 Typ	2.00	2.80	10	2.5:1	150@12V	MSA3
CBL18263030	18-26.5	30	2.50	3.00	10	2.2:1	250	MSA3
CBL18263535	18-26.5	35	2.50	3.50	10	2:1	250	MSA3
CBL18265035	18-26.5	50	3.00	3.50	10	2.5:1	450	MSA4
CBL18261855	18-26.5	18	1.50	5.50	12	2:1	200	MSA3
CBL18262455	18-26.5	24	2.50	5.50	12	2:1	250	MSA3
CBL18262850	18-26.5	28	1.25	5.00	12	2:1	260	MSA3
CBL18263035	18-26.5	30	2.50	3.50	12	2:1	300	MSA3
CBL18264135	18-26.5	41	2.00	3.50	12	2:1	390	MSA4
CBL18261755	18-26.5	17	1.50	5.50	15	2:1	300	MSA3
CBL18262355	18-26.5	23	2.00	5.50	15	2:1	350	MSA3
CBL18263750	18-26.5	37	2.00	5.00	15	2:1	550	MSA4
CBL18402550	18-40	25	2.00	5.00	6	2.5:1	120@12V	MSA3
CBL18401750	18-40	17	2.00	5.00	10	2.5:1	100@12V	MSA3
CBL18402050	18-40	20	2.00	5.00	10	2.5:1	350	MSA3
CBL18402450	18-40	24	3.00	5.00	10	2.5:1	450	MSA4
CBL18403045	18-40	30 Typ	2.00	4.50	10	2.5:1	200@12V	MSA4
CBL18404035	18-40	40	4.00	4.50	10	2.3:1	250@12V	MK4
CBL18403550	18-40	35	3.00	5.00	12	2.5:1	200@12V	MSA4
CBL18402850	18-40	28	3.50	5.00	13	2.5:1	600	MSA3
CBL18403450	18-40	34	3.50	5.00	13	2.5:1	675	MSA4
CBL18401875	18-40	18	2.50	7.50	18	2.5:1	850	MK2
CBL18402575	18-40	25	2.50	7.50	18	2.5:1	950	MK2
CBL18502070	18-50	20	2.50	7.00	7	2.5:1 Typ	250@12V	MSA4
CBL18503070	18-50	30	3.50	7.00	7	2.5:1 Typ	375@12V	MSBV4
CBL20401575	20-40	15	2.00	7.5	10	2.5:1	280	MSA3
CBL20402075	20-40	20	2.25	7.5	10	2.5:1	350	MSA3
CBL20402575	20-40	25	2.50	7.5	10	2.5:1	410	MSA3
CBL20403075	20-40	30	2.75	7.5	10	2.5:1	470	MSA4
CBL20403575	20-40	35	3.00	7.5	10	2.5:1	530	MSA4
CBL26401565	26.5-40	15	1.50	6.5	7	2.5:1	210	MSA3
CBL26402065	26.5-40	20	2.00	6.5	7	2.5:1	250	MSA3
CBL26402465	26.5-40	24	2.25	6.5	7	2.5:1	300	MSA3
CBL26403030	26.5-40	30	2.50	3.0	8	2:1 Typ	150@12V	MSB3
CBL26402050	26.5-40	20	2.00	5.0	10	2.5:1	250	MSA3
CBL26402535	26.5-40	25	2.00	3.5	10	2:1 Typ	180@12V	MSA3
CBL26402550	26.5-40	25	2.00	5.0	10	2.5:1	325	MK3
CBL26403035	26.5-40	30	2.50	3.50	10	2.5:1	250	MSA3



## 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
CBL26403050	26.5-40	30	2.00	5.0	10	2.5:1	400	MSA3
CBL26405040	26.5-40	50	3.50	4.0	10	2.5:1	375	MSB5
CBL26402965	26.5-40	29	2.50	6.5	12	2.5:1	350	MSA3
CBL26403565	26.5-40	35	3.00	6.5	12	2.5:1	400	MSA4
CBL26402265	26.5-40	22	2.00	6.5	15	2.5:1	350	MSA3
CBL26403065	26.5-40	30	2.50	6.5	15	2.5:1	400	MK3
CBL26503065	26.5-50	30	5.00	6.5	5	2.5:1	450@12V	*
CBL26503565	26.5-50	35	5.00	6.5	5	2.5:1	500@12V	*
CBL26505040	26.5-50	50	5.00	4.0	5	2.5:1	500@12V	*
CBL30602560	30-60	25	3.5 Typ	5.0 Typ, 6.0	*	2.5:1	200/12V	MV3
CBL40601045	40-60	10	1.5 Typ	4.5	0	2.5:1 Typ	80	MV2
CBL40603045	40-60	30 Typ	2.5	4.5	7	2.5:1	360@12V	MV3
CBL50752570	50-75	25 Typ	3.0	7.0 Typ	8	3.0:1	210@12V	*
CBL57651555	57-65	15	2.50	5.5	9	2:1	90	MV2
CBL57653055	57-65	30	2.50	5.5	9	2:1	180	MV2
CBL60902050	60-90	20 Typ	6.0	5.0 Typ	-2	6.0:1	100@12V	MW3
CBL60904055	60-90	40 Typ	10.0	5.5 Typ	-2	6.0:1	200@12V	MW3
CBL71861570	71-86	15 Typ	2.0	7.0 Typ	5	3.0:1	60@12V	MW3
CBL71863070	71-86	30 Typ	4.0	7.0 Typ	5	3.0:1	120@12V	MW3
CBL751102055	75-110	20 Typ	3.0	5.5 Typ	-5	3.0:1	65@12V	*
CBL751104055	75-110	40 Typ	6.0	5.5 Typ	-5	3.0:1	125@12V	*
CBL751102010	75-110	20 Typ	4.5	10.0 Typ	5	4.5:1	250@12V	*
CBL751103010	75-110	30 Typ	7.0	10.0 Typ	5	4.5:1	375@12V	*
CBL801001555	80-100	15 Typ	2.0	5.5 Typ	0	2.8:1	40@12V	*
CBL801001580	80-100	15 Typ	1.5	8 Typ	0	4.5:1	40@12V	*
CBL801003055	80-100	30 Typ	3.5	5.5 Typ	0	2.8:1	70@12V	*
CBL821023004	82-102	18 Typ.	3 Typ.	7.0	2	2:1 Typ	10V @100	MW2
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	*
CBL92961555	92-96	15 Typ	1.5	5.5 Typ	0	4.5:1	50@12V	*
CBL92963055	92-96	30 Typ	3.0	5.5 Typ	0	4.5:1	90@12V	*
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

\*\*\*NF WILL BE HIGHER BELOW 1 GHz

\*\*\*\*NF WILL BE 6.0dB MAX FROM 1-25GHz, 7.5dB Max to 50GHz

▲ SMALLER CASES (HN SERIES) ARE ALSO AVAILABLE

△ NOTE: NF BELOW 2GHz WILL BE WORST (6.5dB MAX @ 0.1GHz)

\*\*\*\*\* GAIN WINDOW IS 10dB

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.