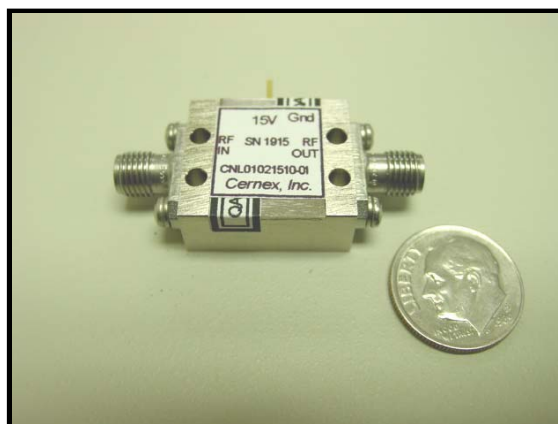




Narrow Band Low Noise Amplifiers

FEATURES:

- ❖ Coverage From 0.3 to 97.0 GHz
- ❖ Removable Connectors
- ❖ Noise Figure As Low As 0.3dB
- ❖ Compact/Rugged Thin-Film Construction
- ❖ Economically Priced



DESCRIPTION:

CNL Series

Cernex's CNL series offer coverage of most needed bands. Typical applications include airborne, shipboard, and ground electronic systems, IFF, radar, and communication receivers, EHF satellite communications. Low noise performance of these CNL series, combined with a wide selection of gain and output power, provide some of the industry's most versatile amplifiers.

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
CNLU5U73009	0.5-0.7	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNLU5U73014	0.5-0.7	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNLU5U74009	0.5-0.7	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNLU5U74014	0.5-0.7	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNLU6U83009	0.6-0.8	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNLU6U83014	0.6-0.8	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNLU6U84009	0.6-0.8	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNLU6U84014	0.6-0.8	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNLU7U93008	0.7-0.9	30	0.50	0.8	10	2:1	175	LN3 / HN3
CNLU7U93009	0.7-0.9	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNLU7U93014	0.7-0.9	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNLU7U94009	0.7-0.9	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNLU7U94014	0.7-0.9	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNLU8013009	0.8-1.0	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNLU8013014	0.8-1.0	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNLU8014009	0.8-1.0	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNLU8014014	0.8-1.0	40	0.75	1.4	10	2:1	200	LN4 / HN4



Narrow Band 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
CNLU9013009	0.9-1.1	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNLU9013014	0.9-1.1	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNLU9014009	0.9-1.1	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNLU9014014	0.9-1.1	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130092	1.0-1.2	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130142	1.0-1.2	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140092	1.0-1.2	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140142	1.0-1.2	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130143	1.1-1.3	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140093	1.1-1.3	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140143	1.1-1.3	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130094	1.2-1.4	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130144	1.2-1.4	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140094	1.2-1.4	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140144	1.2-1.4	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130095	1.3-1.5	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130145	1.3-1.5	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140095	1.3-1.5	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140145	1.3-1.5	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130066	1.4-1.6	30	0.50	0.7	10	2:1	150	LN3 / HN3
CNL010130096	1.4-1.6	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130146	1.4-1.6	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140096	1.4-1.6	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140146	1.4-1.6	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130077	1.5-1.7	30	0.50	0.7	10	2:1	150	LN3 / HN3
CNL010130097	1.5-1.7	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130147	1.5-1.7	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140097	1.5-1.7	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140147	1.5-1.7	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130078	1.6-1.8	30	0.50	0.7	10	2:1	150	LN3 / HN3
CNL010130098	1.6-1.8	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130148	1.6-1.8	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140098	1.6-1.8	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140148	1.6-1.8	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010130099	1.7-1.9	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010130069	1.7-1.9	30	0.50	0.6	10	2:1	150	LN3 / HN3
CNL010130149	1.7-1.9	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010140099	1.7-1.9	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010140149	1.7-1.9	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL01023006	1.8-2.0	30	0.50	0.6	10	2:1	150	LN3 / HN3
CNL01023009	1.8-2.0	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL01023014	1.8-2.0	30	0.50	1.4	10	2:1	150	LN3 / HN3



Narrow Band 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
CNL01024009	1.8-2.0	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL01024014	1.8-2.0	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL010230061	1.9-2.1	30	0.50	0.6	10	2:1	150	LN3 / HN3
CNL010230091	1.9-2.1	30	0.50	0.9	10	2:1	150	LN3 / HN3
CNL010230141	1.9-2.1	30	0.50	1.4	10	2:1	150	LN3 / HN3
CNL010240091	1.9-2.1	40	0.75	0.9	10	2:1	200	LN4 / HN4
CNL010240141	1.9-2.1	40	0.75	1.4	10	2:1	200	LN4 / HN4
CNL020230072	2.0-2.2	30	0.50	0.7	10	2:1	150	LN3 / HN3
CNL020230102	2.0-2.2	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230152	2.0-2.2	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240102	2.0-2.2	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240152	2.0-2.2	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL020230073	2.1-2.3	30	0.50	0.7	10	2:1	150	LN3 / HN3
CNL020230103	2.1-2.3	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230153	2.1-2.3	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240103	2.1-2.3	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240153	2.1-2.3	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL020230074	2.2-2.4	30	0.50	0.7	10	2:1	150	LN3 / HN3
CNL020230104	2.2-2.4	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230154	2.2-2.4	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240104	2.2-2.4	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240154	2.2-2.4	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL020230085	2.3-2.5	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL020230105	2.3-2.5	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230155	2.3-2.5	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240105	2.3-2.5	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240155	2.3-2.5	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL020230086	2.4-2.6	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL020230106	2.4-2.6	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230156	2.4-2.6	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240106	2.4-2.6	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240156	2.4-2.6	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL020230087	2.5-2.7	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL020230107	2.5-2.7	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230157	2.5-2.7	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240107	2.5-2.7	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240157	2.5-2.7	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL020230088	2.6-2.8	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL020230108	2.6-2.8	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230158	2.6-2.8	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240108	2.6-2.8	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240158	2.6-2.8	40	0.75	1.5	10	2:1	200	LN4 / HN4



Narrow Band 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
CNL020230089	2.7-2.9	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL020230109	2.7-2.9	30	0.50	1.0	10	2:1	150	LN3 / HN3
CNL020230159	2.7-2.9	30	0.50	1.5	10	2:1	150	LN3 / HN3
CNL020240109	2.7-2.9	40	0.75	1.0	10	2:1	200	LN4 / HN4
CNL020240159	2.7-2.9	40	0.75	1.5	10	2:1	200	LN4 / HN4
CNL02033008	2.8-3.0	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL02033010	2.8-3.0	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL02033015	2.8-3.0	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL02034011	2.8-3.0	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL02033016	2.8-3.0	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL020330081	2.9-3.1	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL020330111	2.9-3.1	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL020330161	2.9-3.1	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL020340111	2.9-3.1	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL020340161	2.9-3.1	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330082	3.0-3.2	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330112	3.0-3.2	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL030330162	3.0-3.2	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340112	3.0-3.2	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340162	3.0-3.2	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330083	3.1-3.3	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330113	3.1-3.3	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL030330163	3.1-3.3	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340113	3.1-3.3	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340163	3.1-3.3	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330084	3.2-3.4	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330114	3.2-3.4	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL030330164	3.2-3.4	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340114	3.2-3.4	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340164	3.2-3.4	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330085	3.3-3.5	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330115	3.3-3.5	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL030330165	3.3-3.5	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340115	3.3-3.5	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340165	3.3-3.5	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330086	3.4-3.6	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330116	3.4-3.6	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL030330166	3.4-3.6	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340116	3.4-3.6	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340166	3.4-3.6	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330087	3.5-3.7	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330117	3.5-3.7	30	0.50	1.1	10	2:1	150	LN3 / HN3



Narrow Band 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
CNL030330167	3.5-3.7	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340117	3.5-3.7	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340167	3.5-3.7	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL030330088	3.6-3.8	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL030330118	3.6-3.8	30	0.50	1.1	10	2:1	150	LN3 / HN3
CNL030330168	3.6-3.8	30	0.50	1.6	10	2:1	150	LN3 / HN3
CNL030340118	3.6-3.8	40	0.75	1.1	10	2:1	200	LN4 / HN4
CNL030340168	3.6-3.8	40	0.75	1.6	10	2:1	200	LN4 / HN4
CNL03043008	3.7-4.2	30	0.75	0.8	10	2:1	150	LN3 / HN3
CNL03043012	3.7-4.2	30	0.50	1.2	10	2:1	150	LN3 / HN3
CNL03043017	3.7-4.2	30	0.50	1.7	10	2:1	150	LN3 / HN3
CNL03044012	3.7-4.2	40	0.75	1.2	10	2:1	200	LN4 / HN4
CNL03044017	3.7-4.2	40	0.75	1.7	10	2:1	200	LN4 / HN4
CNL04053008	4.4-5.0	30	0.50	0.8	10	2:1	150	LN3 / HN3
CNL04053012	4.4-5.0	30	0.50	1.2	10	2:1	150	LN3 / HN3
CNL04053017	4.4-5.0	30	0.50	1.7	10	2:1	150	LN3 / HN3
CNL04054012	4.4-5.0	40	0.75	1.2	12	2:1	200	LN4 / HN4
CNL04054017	4.4-5.0	40	0.75	1.7	12	2:1	200	LN4 / HN4
CNL05053009	5.4-5.9	30	0.75	0.9	10	2:1	150	LN3 / HN3
CNL05053012	5.4-5.9	30	1.0	1.2	12	2:1	150	LN3 / HN3
CNL05053017	5.4-5.9	30	0.50	1.7	12	2:1	150	LN3 / HN3
CNL05054012	5.4-5.9	40	0.75	1.2	12	2:1	200	LN4 / HN4
CNL05054017	5.4-5.9	40	0.75	1.7	12	2:1	200	LN4 / HN4
CNL05063009	5.9-6.4	30	0.75	0.9	10	2:1	150	LN3 / HN3
CNL05063013	5.9-6.4	30	0.50	1.3	12	2:1	150	LN3 / HN3
CNL05063018	5.9-6.4	30	0.50	1.8	12	2:1	150	LN3 / HN3
CNL05064013	5.9-6.4	40	0.75	1.3	12	2:1	200	LN4 / HN4
CNL05064018	5.9-6.4	40	0.75	1.8	12	2:1	200	LN4 / HN4
CNL06073010	6.4-7.2	30	0.75	1.0	10	2:1	150	LN3 / HN3
CNL06073013	6.4-7.2	30	0.50	1.3	12	2:1	150	LN3 / HN3
CNL06073018	6.4-7.2	30	0.50	1.8	12	2:1	150	LN3 / HN3
CNL06074013	6.4-7.2	40	0.75	1.3	12	2:1	200	LN4 / HN4
CNL06074018	6.4-7.2	40	0.75	1.8	12	2:1	200	LN4 / HN4
CNL07073011	7.2-7.8	30	1.0	1.1	10	2:1	150	LN3 / HN3
CNL07072813	7.2-7.8	28	0.50	1.3	12	2:1	150	LN3 / HN3
CNL07072818	7.2-7.8	28	0.50	1.8	12	2:1	150	LN3 / HN3
CNL07073813	7.2-7.8	38	0.75	1.3	12	2:1	200	LN4 / HN4
CNL07073818	7.2-7.8	38	0.75	1.8	12	2:1	200	LN4 / HN4
CNL07083011	7.9-8.4	30	0.75	1.1	10	2:1	150	LN3 / HN3
CNL07082614	7.9-8.4	26	0.50	1.4	12	2:1	150	LN3 / HN3
CNL07082619	7.9-8.4	26	0.50	1.9	12	2:1	150	LN3 / HN3
CNL07083814	7.9-8.4	38	0.75	1.4	12	2:1	200	LN4 / HN4



Narrow Band 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
CNL07083819	7.9-8.4	38	0.75	1.9	12	2:1	200	LN4 / HN4
CNL08092514	8.5-9.6	25	0.50	1.4	12	2:1	175	LN3 / HN3
CNL080922519	8.5-9.6	25	0.50	1.9	12	2:1	175	LN3 / HN3
CNL08093614	8.5-9.6	36	0.75	1.4	12	2:1	225	LN4 / HN4
CNL08093619	8.5-9.6	36	0.75	1.9	12	2:1	225	LN4 / HN4
CNL08093011	8.5-9.6	30	1.0	1.1	10	2:1	175	LN4 / HN4
CNL09092514	9.0-9.5	25	0.50	1.4	12	2:1	175	LN4 / HN4
CNL09092519	9.0-9.5	25	0.50	1.9	12	2:1	175	LN4 / HN4
CNL09093614	9.0-9.5	36	0.75	1.4	12	2:1	225	LN5 / HN5
CNL09093619	9.0-9.5	36	0.75	1.9	12	2:1	225	LN5 / HN5
CNL09093011	9.0-9.5	30	0.75	1.1	10	2:1	175	LN4 / HN4
CNL09102514	9.5-10.5	25	0.50	1.4	12	2:1	175	LN4 / HN4
CNL09102519	9.5-10.5	25	0.50	1.9	12	2:1	175	LN4 / HN4
CNL09103614	9.5-10.5	36	0.75	1.4	12	2:1	225	LN5 / HN5
CNL09103619	9.5-10.5	36	0.75	1.9	12	2:1	225	LN5 / HN5
CNL09103011	9.5-10.5	30	1.0	1.1	10	2:1	175	LN4 / HN4
CNL10112415	10.7-11.7	24	0.50	1.5	12	2:1	175	LN4 / HN4
CNL10112420	10.7-11.7	24	0.50	2.0	12	2:1	175	LN4 / HN4
CNL10113515	10.7-11.7	35	0.75	1.5	12	2:1	225	LN5 / HN5
CNL10113520	10.7-11.7	35	0.75	2.0	12	2:1	225	LN5 / HN5
CNL10113012	10.7-11.7	30	1.0	1.2	10	2:1	175	LN4 / HN4
CNL11122415	11.7-12.2	24	0.50	1.5	12	2:1	175	LN4 / HN4
CNL11122420	11.7-12.2	24	0.50	2.0	12	2:1	175	LN4 / HN4
CNL11123515	11.7-12.2	35	0.75	1.5	12	2:1	225	LN5 / HN5
CNL11123520	11.7-12.2	35	0.75	2.0	12	2:1	225	LN5 / HN5
CNL11123012	11.7-12.2	30	0.75	1.2	10	2:1	175	LN4 / HN4
CNL12122416	12.2-12.7	24	0.50	1.6	12	2:1	175	LN4 / HN4
CNL12122421	12.2-12.7	24	0.50	2.1	12	2:1	175	LN4 / HN4
CNL12123516	12.2-12.7	35	0.75	1.6	12	2:1	225	LN5 / HN5
CNL12123521	12.2-12.7	35	0.75	2.1	12	2:1	225	LN5 / HN5
CNL12123013	12.2-12.7	30	0.75	1.3	10	2:1	175	LN4 / HN4
CNL12132217	12.7-13.2	22	0.50	1.7	12	2:1	175	LN4 / HN4
CNL12132222	12.7-13.2	22	0.50	2.2	12	2:1	175	LN4 / HN4
CNL12133317	12.7-13.2	33	0.75	1.7	12	2:1	225	LN5 / HN5
CNL12133322	12.7-13.2	33	0.75	2.2	12	2:1	225	LN5 / HN5
CNL12133014	12.7-13.2	30	0.75	1.4	10	2:1	175	LN4 / HN4
CNL13142118	13.2-14.2	21	0.50	1.8	12	2:1	175	LN4 / HN4
CNL13142123	13.2-14.2	21	0.50	2.3	12	2:1	175	LN4 / HN4
CNL13143218	13.2-14.2	32	0.75	1.8	12	2:1	225	LN5 / HN5
CNL13143223	13.2-14.2	32	0.75	2.3	12	2:1	225	LN5 / HN5
CNL13143015	13.2-14.2	30	0.75	1.5	10	2:1	175	LN4 / HN4
CNL14142119	14.0-14.5	21	0.50	1.9	10	2:1	175	LN4 / HN4



Narrow Band 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
CNL14142124	14.0-14.5	21	0.50	2.4	10	2:1	175	LN4 / HN4
CNL14143218	14.0-14.5	32	0.75	1.9	10	2:1	225	LN5 / HN5
CNL14143224	14.0-14.5	32	0.75	2.4	10	2:1	225	LN5 / HN5
CNL14143015	14.0-14.5	30	0.75	1.5	10	2:1	175	LN4 / HN4
CNL14152019	14.5-15.3	20	0.50	1.9	10	2:1	175	LN4 / HN4
CNL14152024	14.5-15.3	20	0.50	2.4	10	2:1	175	LN4 / HN4
CNL14153019	14.5-15.3	30	0.75	1.9	10	2:1	225	LN5 / HN5
CNL14153024	14.5-15.3	30	0.75	2.4	10	2:1	225	LN5 / HN5
CNL14153016	14.5-15.3	30	0.75	1.6	10	2:1	175	LN4 / HN4
CNL15162019	15.5-16.5	20	0.50	1.9	10	2:1	175	LN4 / HN4
CNL15162024	15.5-16.5	20	0.50	2.4	10	2:1	175	LN4 / HN4
CNL15163019	15.5-16.5	30	0.75	1.9	10	2:1	225	LN5 / HN5
CNL15163024	15.5-16.5	30	0.75	2.4	10	2:1	225	LN5 / HN5
CNL15163016	15.5-16.5	30	0.75	1.6	10	2:1	175	LN4 / HN4
CNL16172020	16.5-17.5	20	0.50	2.0	10	2:1	175	LN4 / HN4
CNL16172025	16.5-17.5	20	0.50	2.5	10	2:1	175	LN4 / HN4
CNL16173020	16.5-17.5	30	0.75	2.0	10	2:1	225	LN5 / HN5
CNL16172025	16.5-17.5	30	0.75	2.5	10	2:1	225	LN5 / HN5
CNL16173017	16.5-17.5	30	0.75	1.7	10	2:1	225	LN5 / HN5
CNL17192020	17.7-19.7	20	0.50	2.0	10	2:1	175	LN4 / HN4
CNL17192025	17.7-19.7	20	0.50	2.5	10	2:1	175	LN4 / HN4
CNL17193020	17.7-19.7	30	1.00	2.0	10	2:1	225	LN5 / HN5
CNL17193025	17.7-19.7	30	0.75	2.5	10	2:1	225	LN5 / HN5
CNL18182020	18.1-18.6	20	0.50	2.0	10	2:1	175	LN4 / HN4
CNL18182025	18.1-18.6	20	0.50	2.5	10	2:1	175	LN4 / HN4
CNL18183020	18.1-18.6	30	0.75	2.0	10	2:1	225	LN5 / HN5
CNL18183025	18.1-18.6	30	0.75	2.5	10	2:1	225	LN5 / HN5
CNL18183018	18.1-18.6	30	0.75	1.8	10	2:1	225	LN5 / HN5
CNL18192022	18.3-19.4	20	0.50	2.2	10	2:1	175	LN4 / HN4
CNL18192027	18.3-19.4	20	0.50	2.7	10	2:1	175	LN4 / HN4
CNL18193022	18.3-19.4	30	0.75	2.2	10	2:1	225	LN5 / HN5
CNL18193027	18.3-19.4	30	0.75	2.7	10	2:1	225	LN5 / HN5
CNL19201822	19.2-20.2	18	0.50	2.2	10	2:1	200	LN4 / HN4
CNL19201827	19.2-20.2	18	0.50	2.7	10	2:1	250	LN4 / HN4
CNL19202722	19.2-20.2	27	0.75	2.2	10	2:1	200	LN5 / HN5
CNL19202727	19.2-20.2	27	0.75	2.7	10	2:1	250	LN5 / HN5
CNL20212224	20.2-21.2	22	0.50	2.4	10	2:1	250	LN4 / HN4
CNL20212229	20.2-21.2	22	0.50	2.9	10	2:1	300	LN4 / HN4
CNL20213224	20.2-21.2	32	0.75	2.4	10	2:1	250	LN5 / HN5
CNL20213229	20.2-21.2	32	0.75	2.9	10	2:1	300	LN5 / HN5
CNL21232226	21.2-23.6	22	0.50	2.6	10	2:1	250	LN4 / HN4
CNL21232232	21.2-23.6	22	0.50	3.2	10	2:1	300	LN4 / HN4



Narrow Band 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
CNL21233226	21.2-23.6	32	0.75	2.6	10	2:1	250	LN5 / HN5
CNL21233232	21.2-23.6	32	0.75	3.2	10	2:1	300	LN5 / HN5
CNL23242228	23.2-24.6	22	0.50	2.8	10	2:1	250	LN4 / HN4
CNL23242233	23.2-24.6	22	0.50	3.3	10	2:1	165	LN3 / HN3
CNL23243228	23.2-24.6	32	0.75	2.8	10	2:1	250	LN5 / HN5
CNL23243233	23.2-24.6	32	0.75	3.3	10	2:1	300	LN5 / HN5
CNL24252228	24.2-25.6	22	0.50	2.8	10	2:1	250	LN4 / HN4
CNL24252233	24.2-25.6	22	0.50	3.3	10	2:1	300	LN4 / HN4
CNL24253228	24.2-25.6	32	0.75	2.8	10	2:1	250	LN5 / HN5
CNL24254333	24.2-25.6	32	0.75	3.3	10	2:1	300	LN5 / HN5
CNL25262228	25.2-26.6	22	0.50	2.8	10	2:1	250	LN4 / HN4
CNL25262233	25.2-26.6	22	0.50	3.3	10	2:1	300	LN4 / HN4
CNL25263228	25.2-26.6	32	0.75	2.8	10	2:1	250	LN5 / HN5
CNL25263233	25.2-26.6	32	0.75	3.3	10	2:1	300	LN5 / HN5
CNL25271829	25.0-27.5	18	0.75	2.9	10	2:1	250	MK3
CNL25271835	25.0-27.5	18	0.75	3.5	10	2:1	300	MK3
CNL25273029	25.0-27.5	30	1.0	2.9	10	2:1	350	MK3
CNL25273035	25.0-27.5	30	1.0	3.5	10	2:1	250	MK3
CNL27281835	27.0-28.5	18	0.50	3.5	10	2:1	250	MK3
CNL27282435	27.0-28.5	24	0.75	3.5	10	2:1	300	MK3
CNL27283035	27.0-28.5	30	1.00	3.5	10	2:1	350	MK3
CNL28302435	28.0-30.0	24	0.75	3.5	8	2:1	300	MK3
CNL28303035	28.0-30.0	30	1.00	3.5	8	2:1	350	MK3
CNL28301835	28.0-30.0	18	1.00	3.5	8	2:1	250	MK3
CNL29311835	29.5-31.5	18	0.50	3.5	8	2:1	250	MK3
CNL29312435	29.5-31.5	24	0.75	3.5	8	2:1	300	MK3
CNL29313035	29.5-31.5	30	1.00	3.5	8	2:1	350	MK3
CNL31331840	31.0-33.0	18	0.50	4.0	8	2:1	250	MK3
CNL31332440	31.0-33.0	24	0.75	4.0	8	2:1	300	MK3
CNL31333040	31.0-33.0	30	1.00	4.0	8	2:1	350	MK3
CNL32341840	32.5-34.5	18	0.50	4.0	8	2:1	250	MK3
CNL32342440	32.5-34.5	24	0.75	4.0	8	2:1	300	MK3
CNL32343040	32.5-34.5	30	1.00	4.0	8	2:1	350	MK3
CNL34361845	34.0-36.0	18	0.50	4.5	8	2:1	250	MK3
CNL34362445	34.0-36.0	24	0.75	4.5	8	2:1	300	MK3
CNL34363045	34.0-36.0	30	1.00	4.5	8	2:1	350	MK3
CNL35371845	35.5-37.5	18	0.50	4.5	8	2:1	250	MK3
CNL35372445	35.5-37.5	24	0.75	4.5	8	2:1	300	MK3
CNL35373045	35.5-37.5	30	1.00	4.5	8	2:1	350	MK3
CNL37391850	37.0-39.0	18	0.50	5.0	8	2:1	250	MK3
CNL37392450	37.0-39.0	24	1.50	5.0	8	2:1	300	MK3
CNL37393050	37.0-39.0	30	1.00	5.0	8	2:1	350	MK3



Narrow Band 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
CNL38401850	38.0-40.0	18	0.50	5.0	8	2:1	250	MK3
CNL38402450	38.0-40.0	24	0.75	5.0	8	2:1	300	MK3
CNL38403050	38.0-40.0	30	1.00	5.0	8	2:1	350	MK3
CNL57591550	57.0-59.0	15	1.00	5.0	8	2:1	100	*
CNL58601550	58.0-60.0	15	1.00	5.0	8	2:1	100	*
CNL59611550	59.0-61.0	15	1.00	5.0	8	2:1	100	*
CNL60621550	60.0-62.0	15	1.00	5.0	8	2:1	100	*
CNL61631550	61.0-63.0	15	1.00	5.0	8	2:1	100	*
CNL62641550	62.0-64.0	15	1.00	5.0	8	2:1	100	*
CNL63651550	63.0-65.0	15	1.00	5.0	8	2:1	100	*
CNL85861570	85.0-86.0	15	1.00	7.0	5	2:1	100	*
CNL86871570	86.0-87.0	15	1.00	7.0	5	2:1	100	*
CNL87881570	87.0-88.0	12	1.00	7.0	5 typ	2:1	100	*
CNL87882570	87.0-88.0	25	1.50	7.0	5 typ	2:1	150	*
CNL88891570	88.0-89.0	15	1.00	7.0	5 typ	2:1	100	*
CNL88892570	88.0-89.0	25	1.50	7.0	5 typ	2:1	150	*
CNL89902570	89.0-90.0	25	1.50	7.0	5 typ	2:1	150	*
CNL89901270	89.0-90.0	12	1.00	7.0	5 typ	2:1	100	*
CNL90911270	90.0-91.0	12	1.00	7.0	5 typ	2:1	100	*
CNL90912570	90.0-91.0	25	1.50	7.0	5 typ	2:1	150	*
CNL90921270	90.0-92.0	12	1.00	7.0	5 typ	2:1	50	*
CNL90922570	90.0-92.0	25	1.50	7.0	5 typ	2:1	150	*
CNL92931270	92.0-93.0	12	1.00	7.0	5 typ	2:1	100	*
CNL92932570	92.0-93.0	25	1.50	7.0	5 typ	2:1	150	*
CNL93941270	93.0-94.0	12	1.00	7.0	5 typ	2:1	100	*
CNL94951270	94.0-95.0	12	1.00	7.0	5 typ	2:1	100	*
CNL95961270	95.0-96.0	12	1.00	7.0	5 typ	2:1	100	*
CNL96971270	96.0-97.0	12	1.00	7.0	5 typ	2:1	100	*
CNL93942570	93.0-94.0	25	1.50	7.0	5 typ	2:1	80	*
CNL94952570	94.0-95.0	25	1.50	7.0	5 typ	2:1	150	*
CNL96972570	96.0-97.0	25	1.50	7.0	5 typ	2:1	150	*

ALL THE ABOVE SPECIFICATIONS ARE @ 25°C

OTHER FREQUENCY BANDS & NOISE FIGURES ARE ALSO AVAILABLE.

*CONSULT THE FACTORY

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.