



Low Noise Amplifiers

ACTIVE PRODUCTS

FEATURES

- LOW NOISE FIGURES
- MULTIPLE NARROW AND WIDEBAND CONFIGURATIONS
- MULTIPLE GAIN AND P1dB RANGES
- INTERNALLY REGULATED WITH SINGLE +12V INPUT
- OPTIONAL TEMPERATURE COMPENSATION
- ADDITIONAL CONFIGURATIONS AND CUSTOM COMPONENTS ARE AVAILABLE.



Millimeter Wave / 18-60 GHz

Narda Model Number	Frequency (GHz)	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (± dB) Max.	IP3 (dBm) Typ.	VSWR 50 Ohms I/O Max.	DC Current (mA) Max.	Case**
DBL-1826N310	18-26.5	22	3.2 Typ. / 3.5	10	1.25	20	2.2 / 2.2	200	DBK-4
DBL-1840N506	18-40	20	5.0 Typ. / 5.5	6	2.0	16	2.5 / 2.5	350	DBK-6
DBS-1819N310	18.1-18.6	30	2.5	10	0.5	20	2.0 / 2.0	150	DBK-6
DBS-2021N410	20.2-21.2	30	2.5	10	1.0	20	2.0 / 2.0	225	DBK-6
DBS-2122N410	21.5-22.5	28	2.5	10	0.6	20	2.0 / 2.0	215	DBK-4
DBS-2324N410	23-24	30	2.5	10	1.0	20	2.0 / 2.0	225	DBK-6
DBS-2326N410	23.6-26.5	28	3.0	10	1.25	20	2.0 / 2.0	215	DBK-4
DBS-2631N410	26-31.5*	30	3.0	10	1.0	20	2.0 / 2.0	235	DBK-6
DBL-2640N410	26.5-40	20	4.5	10	2.0	20	2.5 / 2.5	250	DBK-4
DBS-3238N410	32-38*	22	4.0	10	1.0	20	2.0 / 2.0	275	DBK-4
DBS-3350N410	33-50	18	8.0	10	2.0	20	2.5 / 2.5	400	DBV-4
DBS-4060N410	40-60	26	8.0	10 Psat	3.0	N/A	3.0 / 3.0	650	DBV-4
DBS-4042N510	40.5-42.5*	30	3.5 Typ. / 4.0	10	1.0	17	2.5 / 2.5	300	DBK-6
DBS-4344N510	43-44	30	4.0	10	1.25	17	2.5 / 2.5	250	DBK-6
DBS-4345N410	43.5-45.5	22	4.5	10	1.5	17	2.5 / 2.5	250	DBV-4
DBS-4445N510	44-45	30	4.0	10	1.25	17	2.5 / 2.5	250	DBK-6

The amplifiers listed above include an internal voltage regulator with input voltage of +11.5 to +15.5 V DC.

Maximum RF input power is +20 dBm (CW) or 30 dBm pulse, 1 microsecond and 1% duty cycle.

RF connector options for all models on the above table are K Female and Waveguide.

* These amplifiers are specified over a 500 MHz customer defined bandwidth.

** Refer to catalog or www.nardamicrowave.com for additional information on case outlines and options.

Narda DBS Microwave has been integrated into Narda Microwave-West.

narda
microwave-west

ACTIVE PRODUCTS

Low Noise Amplifiers

Microwave Narrowband LNAs

Narda Model Number	Frequency (GHz)	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (± dB) Max.	IP3 (dBm) Typ.	VSWR 50 Ohms I/O Max.	DC Current (mA) Max.	Case DBX**
DBS-2520N310	2.0-2.5	28	2.0	10	0.5	20	2.0 / 2.0	175	4I, 2MH
DBL-2422N110	2.2-2.4	15	1.5	10	0.5	20	2.0 / 2.0	80	SMH
DBS-3025N312	2.5-3.0	28	2.0	12	0.5	22	2.0 / 2.0	175	4I, 2MH
DBL-3127N210	2.7-3.1	30	1.5	10	0.5	20	2.0 / 2.0	125	2I, 1MH
DBS-3328N312	2.8-3.3	28	2.0	12	0.5	22	2.0 / 2.0	175	4I, 2MH
DBS-3530N312	3.0-3.5	28	2.0	12	0.5	22	2.0 / 2.0	175	4I, 2MH
DBS-4237N312	3.7-4.2	28	2.0	12	0.5	22	2.0 / 2.0	175	4I, 2MH
DBS-5044N310	4.4-5.0	28	2.0	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBS-5954N310	5.4-5.9	28	2.0	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBL-6054N210	5.4-6.0	30	1.5	10	0.5	20	2.0 / 2.0	125	2I, 1MH
DBS-6459N310	5.9-6.4	28	2.0	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBS-7772N310	7.25-7.75	28	2.0	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBS-8479N310	7.9-8.4	28	2.0	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBS-0810N210	8-10	19	2.0	10	1.0	20	2.0 / 2.0	110	2I, 1MH
DBL-8510N210	8.5-10.5	20	1.5	10	0.5	20	2.0 / 2.0	100	2I, 1MH
DBS-0910N310	9.0-10.0	30	1.5	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBL-1011N210	10.5-11.5	20	1.5	10	0.5	20	2.0 / 2.0	100	2I, 1MH
DBS-1011N310	10.7-11.7	30	1.5	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBL-1112N210	11.5-12.5	20	2.2	10	0.5	20	2.0 / 2.0	100	2I, 1MH
DBL-1213N210	12.5-13.5	20	2.2	10	0.5	20	2.0 / 2.0	100	2I, 1MH
DBL-1314N210	13.5-14.5	20	2.2	10	0.5	20	2.0 / 2.0	125	2I, 1MH
DBS-1415N310	14.0-14.5	30	2.5	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBL-1415N210	14.5-15.5	20	2.2	10	0.5	20	2.0 / 2.0	125	2I, 1MH
DBL-1516N210	15.5-16.5	20	2.2	10	0.5	20	2.0 / 2.0	125	2I, 1MH
DBS-1617N310	16.0-17.0	30	2.5	10	0.5	20	2.0 / 2.0	150	4I, 2MH
DBL-1617N210	16.5-17.5	20	2.2	10	0.5	20	2.0 / 2.0	125	2I, 1MH
DBL-1718N210	17.5-18.5	20	2.2	10	0.5	20	2.0 / 2.0	125	2I, 1MH

Microwave Wideband LNAs

Narda Model Number	Frequency (GHz)	Gain (dB) Min.	Noise Figure (dB) Max.	P1dB (dBm) Min.	Gain Flatness (± dB) Max.	IP3 (dBm) Typ.	VSWR 50 Ohms I/O Max.	DC Current (mA) Max.	Case DBX**
DBL-0102N305	0.5-2	28	2.0	5	0.5	15	2.0 / 2.0	150	1MH
DBS-0112N210	0.5-12	20	5.5 Typ. / 6.5	10	1.5	20	2.0 / 2.1	270	2I, 1MH
DBL-0204N310	2-4	28	2.0	10	1.0	20	2.0 / 2.0	150	1MH
DBS-0208N108	2-8	14	2.0 Typ. / 2.3	8	1.5	18	2.0 / 2.0	70	2I, 1MH
DBS-0208N315	2-8	30	2.1 Typ. / 2.3	15	1.5	25	2.0 / 2.0	200	4I, 2MH
DBL-0218N208	2-18	22	3.0 Typ. / 3.5	8	1.75	18	2.0 / 2.0	160	2I, 1MH
DBS-0408N215	4-8	28	1.5	15	1.5	25	2.2 / 2.0	125	2I, 1MH
DBS-0411N313	4-11	28	2.2 Typ. / 2.5	13	1.5	23	2.0 / 2.0	200	4I, 2MH
DBL-0511N410	5-11	30	2.0	10	1.0	20	2.0 / 2.0	200	2MH
DBS-0513N415	5-13	28	2.2 Typ. / 2.5	15	1.5	25	2.0 / 2.0	180	4I, 3MH
DBS-0612N315	6-12	29	2.2 Typ. / 2.5	15	1.5	25	2.0 / 2.0	175	4I, 2MH
DBL-0618N410	6-18	28	2.3 Typ. / 2.5	10	1.0	20	2.0 / 2.0	150	4I, 2MH
DBL-0618N313	6-18	25	2.3 Typ. / 2.5	13	1.5	23	2.0 / 2.0	190	4I, 2MH
DBS-0618N415	6-18	32	2.7 Typ. / 3.0	15	1.5	25	2.0 / 2.0	320	4I, 3MH
DBS-0712N315	7-12.4	28	2.3 Typ. / 2.5	15	1.5	25	2.0 / 2.0	190	4I, 2MH
DBL-1113N410	11-13	30	2.0	10	1.0	20	2.0 / 2.0	200	2MH

The amplifiers listed above include an internal voltage regulator with input voltage of +11.5 to +15.5 V DC.

Maximum RF input power is +20 dBm (CW) or 30 dBm pulse, 1 microsecond and 1% duty cycle.

Many other options of frequencies, gain, output power and optional temperature compensation are available. Contact factory at 916.351.4500 for more information.

Connectors for all models on the above tables are SMA Female.

** Refer to catalog or www.nardamimicrowave.com for additional information on case outlines and options.