



www.nardamicrowave.com

Millimeter Wave Medium Power Amplifiers

18 TO 65 GHz, OUTPUT POWERS <+24 dBm

FEATURES

- WIDE BANDWIDTH
- MULTIPLE GAIN AND P1dB RANGES
- INTERNAL VOLTAGE REGULATOR INCLUDED
- INPUT VOLTAGE OF +11.5V DC TO +15.5V DC
- SMALL HERMETIC UNITS
- CUSTOM CONFIGURATIONS AND WAVEGUIDE CONNECTORS AVAILABLE



DBK case option shown

Frequency Response (GHz)	Gain (dB) Min.	Gain (dB) Max.	Gain Flatness (+/-dB) Max.	Noise Figure (dB) Typ./Max.	P1dB (dBm) Min.	IP3 (dBm) Typ.	VSWR 50 Ohms In/Out Max.	Current @12V DC (mA) Max.	Case Options	Narda Model Number
18.0-26.5	12	17	1.0	4.5/5.0	10	20	2.2/2.2	150	DBK-3	DBS-1826N210
18.0-26.5	18	23	1.25	4.5/5.0	10	20	2.2/2.2	200	DBK-3	DBS-1826N310
18.0-26.5	28	33	1.5	4.5/5.0	12	22	2.2/2.2	260	DBK-4	DBS-1826N412
18.0-26.5	35	41	1.75	4.5/5.0	12	22	2.2/2.2	310	DBK-6	DBS-1826N512
18.0-26.5	31	37	1.75	4.5/5.0	15	25	2.2/2.2	500	DBK-6	DBS-1826N515
18.0-26.5	28	35	1.75	5.0/6.0	23 Psat	N/A	2.2/2.2	675	DBK-6	DBS-1826N523
18.0-26.5	41	48	2.0	4.5/5.0	12	22	2.2/2.2	390	DBK-6	DBS-1826N612
18.0-26.5	37	44	2.0	4.5/5.0	15	25	2.2/2.2	550	DBK-6	DBS-1826N615
18.0-26.5	27	35	1.75	5.0/6.0	23	33	2.2/2.2	825	DBK-6	DBS-1826N823
18.0-40.0	13	19	2.0	5.5/6.0	10	20	2.5/2.5	225	DBK-4	DBS-1840N310
18.0-40.0	17	24	2.0	5.5/6.0	10	20	2.5/2.5	300	DBK-4	DBS-1840N410
18.0-40.0	20	28	2.5	5.5/6.0	10	20	2.5/2.5	375	DBK-6	DBS-1840N510
18.0-40.0	24	32	3.0	5.5/6.0	10	20	2.5/2.5	450	DBK-6	DBS-1840N610
18.0-40.0	17	24	2.5	5.5/6.0	13	23	3.0/3.0	450	DBK-4	DBS-1840N413
18.0-40.0	28	38	3.5	5.5/6.0	13	23	2.5/2.5	600	DBK-8	DBS-1840N713
18.0-40.0	34	44	3.5	5.5/6.0	13	23	2.5/2.5	675	DBK-8	DBS-1840N813
18.0-40.0	18	26	2.5	6.5/7.0	18	25	2.5/2.5	2200	DBK-4P	DBP-1840N518
18.0-40.0	25	33	2.5	6.5/7.0	18	25	2.5/2.5	2200	DBK-6P	DBP-1840N618
18.0-40.0	18	26	3.5	6.5/7.0	20 Psat	N/A	2.5/2.5	550	DBK-4	DBS-1840N420
18.0-40.0	25	35	3.5	6.0/7.0	20 Psat	N/A	2.5/2.5	700	DBK-6	DBS-1840N620
18.0-40.0	20	28	3.5	6.0/7.0	22 Psat	N/A	2.5/2.5	1100	DBK-4P	DBP-1840N622
18.0-40.0	25	35	3.5	6.0/7.0	22 Psat	N/A	2.5/2.5	1400	DBK-6P	DBP-1840N822
18.1-18.6	30	33	0.5	3.0*	23	33	2.0/2.0	650	DBX-6I, DBX-3MH	DBS-1819N423
20.2-21.2	25	28	1.0	3.5*	17	27	2.0/2.0	285	DBK-4	DBS-2021N417
20.2-21.2	32	35	1.0	3.5*	20	30	2.0/2.0	425	DBK-6	DBS-2021N620
20.2-21.2	30	33	1.0	4.0*	23	33	2.0/2.0	525	DBK-6	DBS-2021N623
23.6-26.5	30	33	1.25	4.0*	23	33	2.0/2.0	525	DBK-6	DBS-2326N623
26.5-40.0	15	20	2.0	6.5/7.0	6	16	2.5/2.5	225	DBK-3	DBS-2640N306
26.5-40.0	20	26	2.0	6.0/6.5	10	20	2.5/2.5	300	DBK-4	DBS-2640N410
26.5-40.0	25	32	2.0	6.0/6.5	10	20	2.5/2.5	375	DBK-6	DBS-2640N510
26.5-40.0	30	37	2.5	6.0/6.5	10	20	2.5/2.5	450	DBK-6	DBS-2640N610
26.5-40.0	28	35	2.5	6.5/7.0	13	23	2.5/2.5	600	DBK-6	DBS-2640N613

narda
microwave-west

Chart continued on back

Continued from front

18 TO 65 GHz, OUTPUT POWERS <+24 dBm

Millimeter Wave Medium Power Amplifiers

Frequency Response (GHz)	Gain (dB) Min.	Gain (dB) Max.	Gain Flatness (+/-dB) Max.	Noise Figure (dB) Typ./Max.	P1dB (dBm) Min.	IP3 (dBm) Typ.	VSWR 50 Ohms In/Out Typ.	Current @12V DC (mA) Max.	Case Options	Narda Model Number
26.5-40.0	20	28	2.0	7.0/8.0	20	30	2.5/2.5	2200	DBK-6P	DBP-2640N520
26.5-40.0	26	35	2.5	7.0/8.0	20	30	2.5/2.5	2200	DBK-6P	DBP-2640N620
26.5-40.0	20	28	2.5	7.0/8.0	20 Psat	N/A	2.5/2.5	550	DBK-4	DBS-2640N420
26.5-40.0	26	35	2.5	7.0/8.0	23 Psat	N/A	2.5/2.5	1100	DBK-6P	DBP-2640N823
26.0-31.5**	20	25	1.5	6.0/6.5	22	32	2.2/2.2	750	DBK-4	DBS-2631N622
26.0-31.5**	27	32	1.5	6.0/6.5	22	32	2.2/2.2	850	DBK-6	DBS-2631N722
32.0-38.0**	20	25	1.0	4.0/5.0	12	22	2.0/2.0	350	DBK-4	DBS-3238N412
32.0-38.0**	25	32	1.0	4.0/5.0	12	22	2.0/2.0	400	DBK-6	DBS-3238N512
33.0-50.0	18	24	2.0	8.0/9.0	10	20	2.5/2.5	400	DBV-4	DBS-3350N410
33.0-50.0	20	28	2.5	8.0/9.0	16 Psat	N/A	2.5/2.5	600	DBV-6	DBS-3350N616
33.0-50.0	20	30	2.5	8.0/9.0	19 Psat	N/A	2.5/2.5	800	DBV-6	DBS-3350N819
35.5-40.5	20	28	1.5	8.0/9.0	23 Psat	N/A	2.2/2.2	1100	DBK-4P	DBP-3540N623
40.5-42.5	30	36	1.0	3.5/4.0	10	17	2.5/2.5	300	DBK-6	DBS-4042N510
40.5-42.5	20	26	1.5	5.5/6.5	13	23	2.5/2.5	350	DBK-4	DBS-4042N413
40.0-60.0	26	36	3.0	8.5/9.5	10 Psat	N/A	3.0/3.0	650	DBV-4	DBS-4060N410
40.0-60.0	26	36	3.0	8.5/9.5	12 Psat	N/A	3.0/3.0	800	DBV-4	DBS-4060N412
40.0-60.0	25	35	3.0	8.0/9.0	14 Psat	N/A	3.0/3.0	950	DBV-4	DBS-4060N514
40.0-60.0	25	35	3.0	8.0/9.0	17 Psat	N/A	3.0/3.0	1800	DBV-5P	DBP-4060N617
43.5-45.5	20	26	1.5	7.5/8.5	21 Psat	N/A	2.5/2.5	1000	DBK-4P	DBP-4345N821
43.5-45.5	20	28	1.5	7.5/8.5	23 Psat	N/A	2.5/2.5	2000	DBK-6P	DBP-4345N823
43.5-45.5	22	28	1.5	5.0/6.0	10	20	2.5/2.5	325	DBV-4	DBS-4345N410
43.5-45.5	20	26	1.5	5.0/6.0	13	23	2.5/2.5	350	DBV-4	DBS-4345N413
57.0-60.0	25	35	2.5	8.0/9.0	18 Psat	N/A	3.0/3.0	1900	DBV-5P	DBP-5760N618
58.0-59.0	28	38	1.5	9.0*	13	23	2.5/2.5	1000	DBV-5P	DBP-5859N613
60.0-65.0	25	35	3.0	9.0/10.0	15 Psat	N/A	3.0/3.0	1800	DBV-5P	DBP-6065N615

*Maximum noise figure is shown

**All specifications are guaranteed over any customer defined 500 MHz Bandwidth

Maximum RF input power is +20 dBm CW or +30 dBm pulse at 1 micro second and 1% duty cycle.

Performance guaranteed at +25°C.

CASE OPTIONS

