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Millimeter Wave High Power Amplifiers

18 TO 44 GHz, OUTPUT P1dB +24 dBm OR HIGHER

FEATURES

- HIGH EFFICIENCY
- MULTIPLE GAIN AND P1dB RANGES
- INTERNAL VOLTAGE REGULATOR INCLUDED
- SINGLE BIAS INPUT VOLTAGE OF +8.0V DC TO +15.5V DC
- INPUT POWER UP TO +20 dBm CW
- SMALL HERMETIC UNITS
- CHOICE OF WAVEGUIDE OR K-FEMALE CONNECTORS
- CUSTOM CONFIGURATIONS AVAILABLE



DBKN 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	27	35	1.75	6.0/7.0	25.0	35	2.2/2.2	1500	DBK-6	DBS-1826N825
18.0-26.5	27	35	1.75	6.0/7.0	27.0	37	2.2/2.2	2200	DBK-6P	DBP-1826N827
18.0-26.5	27	35	1.75	5.0/6.0	25.0 Psat	N/A	2.2/2.2	900	DBK-6	DBS-1826N725
18.0-26.5	30	38	1.75	5.5/6.0	28.0	N/A	2.0/2.0	1000 @ 8V	DBKN-7	DBM-1826N328
18.0-26.5	30	38	2.0	5.5/6.0	30.0	N/A	2.0/2.0	1800 @ 8V	DBKN-7	DBM-1826N330
18.0-40.0	18	26	2.5	6.5/7.0	24.0 Psat	N/A	2.5/2.5	2200	DBK-4P	DBP-1840N624
18.0-40.0	25	33	2.5	6.5/7.0	24.0 Psat	N/A	2.5/2.5	2200	DBK-6P	DBP-1840N824
18.1-18.6	30	36	1.0	5.8/6.0	25.0	33	2.0/2.0	900	DBX-6I, DBX-3MH	DBS-1819N425
18.1-18.6	30	36	1.0	5.8/6.0	27.0	34	2.0/2.0	950	DBX-6I, DBX-3MH	DBS-1819N427
18.1-18.6	30	36	1.0	5.8/6.0	30.0	37	2.0/2.0	2000	DBX-7P	DBP-1819N530
20.2-21.2	30	36	1.25	5.8/6.0	25.0	35	2.0/2.0	900	DBK-6	DBS-2021N625
20.2-21.2	30	36	1.25	5.8/6.0	27.0	37	2.0/2.0	1500	DBK-6	DBS-2021N627
23.6-26.5	30	36	1.25	5.8/6.0	25.0	35	2.0/2.0	900	DBK-6	DBS-2326N625
23.6-26.5	30	36	1.25	5.8/6.0	27.0	N/A	2.0/2.0	1900	DBK-6P	DBP-2326N627
26.5-40.0	20	28	2.0	7.0/8.0	26.0 Psat	N/A	2.5/2.5	2200	DBK-6P	DBP-2640N526
26.5-40.0	26	35	2.5	7.0/8.0	26.0 Psat	N/A	2.5/2.5	2200	DBK-6P	DBP-2640N626
27.0-29.0	30	38	1.5	6.5/7.0	33.0	N/A	2.0/2.0	3700 @ 8V	DBKN-7	DBM-2729N333
27.0-31.0	30	38	1.5	6.5/7.0	28.0	N/A	2.0/2.0	1000 @ 8V	DBKN-7	DBM-2731N328
27.0-31.0	30	38	1.5	6.5/7.0	30.0	N/A	2.0/2.0	1800 @ 8V	DBKN-7	DBM-2731N330
29.0-31.0	30	38	1.5	6.5/7.0	32.0	N/A	2.0/2.2	2200 @ 8V	DBKN-7	DBM-2931N332
33.0-36.0	30	38	1.5	7.0/7.5	29.0	N/A	2.0/3.0	1800 @ 8V	DBKN-7	DBM-3336N329
37.0-39.0	30	38	1.5	7.0/7.5	32.0	N/A	2.0/2.0	3700 @ 8V	DBKN-7	DBM-3739N332
37.0-40.0	30	38	1.5	7.0/7.5	30.0	N/A	2.0/2.0	2000 @ 8V	DBKN-7	DBM-3740N330
39.0-42.5	30	38	1.5	8.5/9.0	29.0	N/A	2.0/2.3	2700 @ 8V	DBKN-7	DBM-3942N329
42.0-44.0	21	29	1.0	8.5/9.0	21.0	N/A	2.0/2.0	1200 @ 8V	DBKN-7	DBM-4244N321

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.

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CASE OPTIONS

