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RF AMPLIFIER MODEL QB-188

Available as: QB-188, Housing (E52-0184)

Features

- High Gain: 15.0 dB Typical
- High Power: +21 dBm Typical
- Operating Temp. - 55 ºC to +71 ºC
- Environmental Screening Available

Maximum Ratings

Ambient Operating Temperature ..... -55 ºC to +85 ºC
Storage Temperature ..... -65 ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 16 Volts
Continuous RF Input Power ..... + 13 dBm
Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

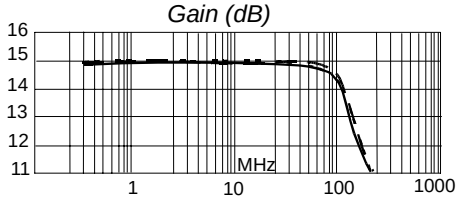
Note:
1. Specifications are guaranteed when tested in a 50 Ohm system. Specifications indicated as typical are not guaranteed.

Specifications

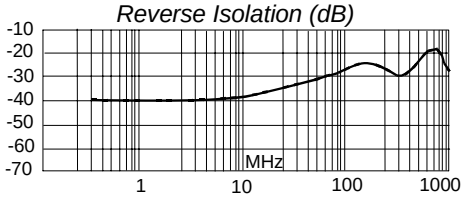
CHARACTERISTIC		TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +71 ºC
Frequency		0.5 - 100 MHz	0.5 - 100 MHz
Gain (dB)		15.0 ± 1.0	—
Gain vs. Temperature		—	+0.3/ -0.3 Max.
Gain Flatness		0.5	0.5 Max.
Reverse Isolation (dB)		28	28 Min.
VSWR	In	1.5:1	1.5:1 Max.
	Out	1.5:1	1.5:1 Max.
1 dB Compression (dBm)		+21	+21 Min.
Output Intercept point			
	3rd Order	+37	+37 Min.
	2nd Order	+47	+47 Min.
Noise Figure (dB)		3.0	3.6 Max.
Power	Vdc	+15	+15
	mA	100	100 Max.

Typical Performance Data

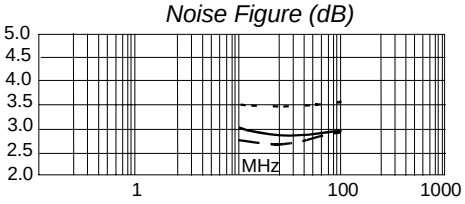
Gain (dB)



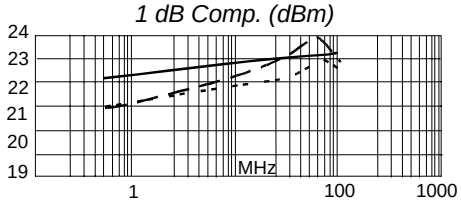
Reverse Isolation (dB)



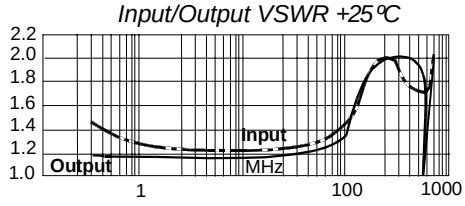
Noise Figure (dB)



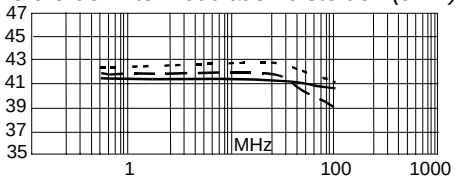
1 dB Comp. (dBm)



Input/Output VSWR +25ºC



3rd order intermodulation distortion (dBm)



Legend ——— *+ 25 ºC* – – – *+ 71 ºC* - - - - - - *-55 ºC*

Linear S-Parameters Data

FREQ. MHz	S11 dB	S11 Ang	S21 dB	S21 Ang	S12 dB	S12 Ang	S22 dB	S22 Ang
0.5	-16.4	-27.8	14.8	-175.0	-37.3	34.5	-20.7	8.8
1	-17.6	-17.9	14.9	-177.9	-37.7	21.6	-20.7	3.8
3	-18.1	-9.0	14.8	177.7	-37.8	9.5	-20.8	-4.0
6	-18.2	-10.7	14.8	174.2	-37.5	10.5	-20.9	-9.4
9	-18.1	-14.1	14.8	170.9	-37.4	11.9	-20.9	-14.3
20	-18.1	-29.2	14.8	159.5	-36.1	18.7	-20.8	-33.3
50	-18.0	-73.7	14.8	128.0	-31.9	18.9	-20.1	-89.2
80	-16.8	-128.4	14.7	95.1	-28.5	3.6	-17.1	-146.6
100	-15.3	-167.5	14.5	71.2	-26.9	-12.6	-14.3	176.3

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