RF AMPLIFIER MODEL *TN9488*

Available as: TN9488, 4 Pin Surface Mount (SM3)
BX9488, Hermetic Seal SMA Replaceable Female Connector (H1L)

Preliminary

Features

- High Gain: 20 dB Typical
- High Output Power: +21.5 dBm Typical
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	800 - 4000 MHz	800 - 4000 MHz
Gain (dB)	20	18.5 Min.
Gain Flatness (dB)	±0.5	±1.0 Max.
Power @ 1 dB Comp. (dBm)	+21.5	+20 Min.
Reverse Isolation (dB)	-39	-30 Max.
VSWR In Out	1.8:1 1.8:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	<4.3	5.2 Max.
Power Vdc mA	+15 110	+15 115 Max.

Note: Care should always be taken to effectively ground the case of each unit.

Typical Intermodulation Performance at 25 ºC

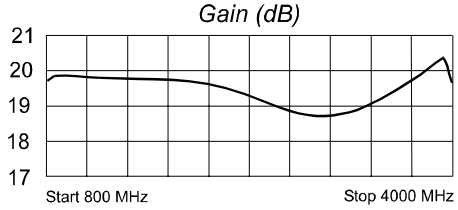
Second Order Harmonic Intercept Point ..... +56 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +52 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +34 dBm (Typ.)

Maximum Ratings

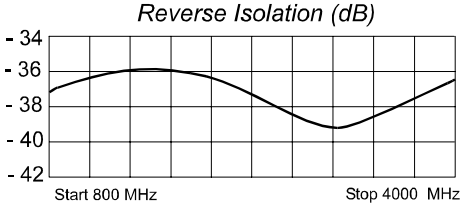
Ambient Operating Temperature .....-55ºC to +100 ºC
Storage Temperature .....-62ºC to +125 ºC
Case Temperature .....+105 ºC
DC Voltage ..... +17 Volts
Continuous RF Input Power ..... +17 dBm
Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Typical Performance Data

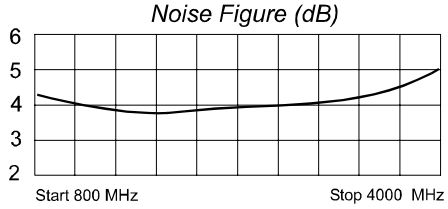
Gain (dB)



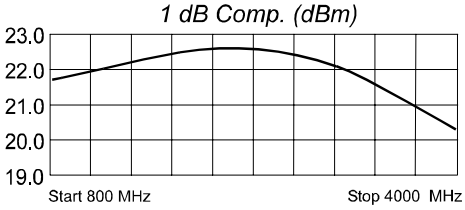
Reverse Isolation (dB)



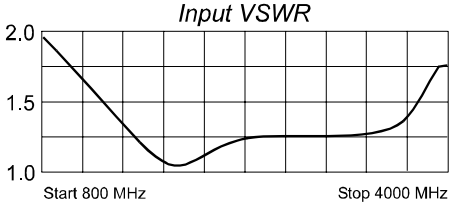
Noise Figure (dB)



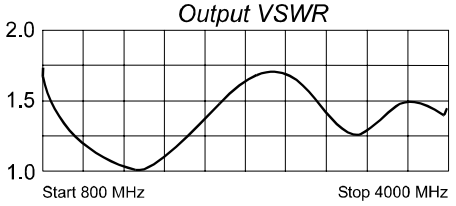
1 dB Comp. (dBm)



Input VSWR



Output VSWR



Legend ——— +25 ºC

Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532
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www.SpectrumMicrowave.com *Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001*