

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 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
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	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	<4.3	5.2 Max.
Power Vdc	+15	+15
mA	110	115 Max.

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

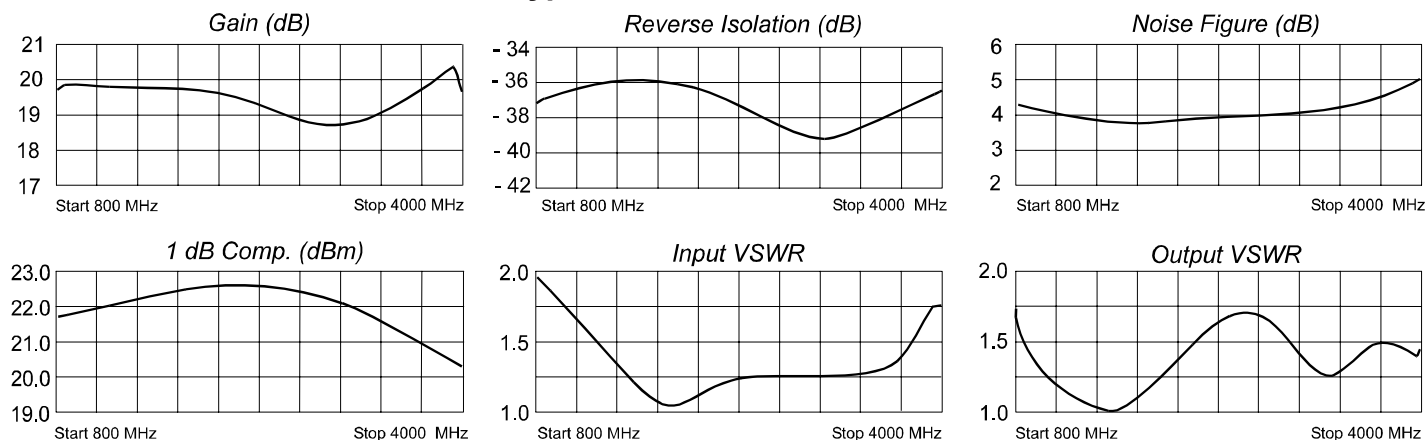
Typical Intermodulation Performance at 25 °C

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 -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +105 °C
 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



Legend — +25 °C



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