RF AMPLIFIER MODEL *TM9338*

Available as: TM9338, 4 Pin TO-8LP
TN9338, 4 Pin Surface Mount (SM3)
BX9338, Connectorized Housing (H1)

Preliminary

Features

- High Gain: 25.5 dB Typical
- Low Noise Figure: 3.6 dB 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	5 - 1100 MHz	5 - 1000 MHz
Gain (dB)	25.5	24 Min.*
Gain Flatness (dB)	±0.4	±0.7 Max.
Power @ 1 dB Comp. (dBm)	+16.5	+14.5 Min.
Reverse Isolation (dB)	-34	-30 Max.
VSWR In Out	<1.4:1 <1.4:1	1.9:1 Max. 1.9:1 Max.
Noise Figure (dB)	<4.5	6.0 Max.
Power Vdc mA	+5 70	+5 80 Max.

Note: Care should always be taken to effectively ground the case of each unit.
* 0.5 dB less above 900 MHz.

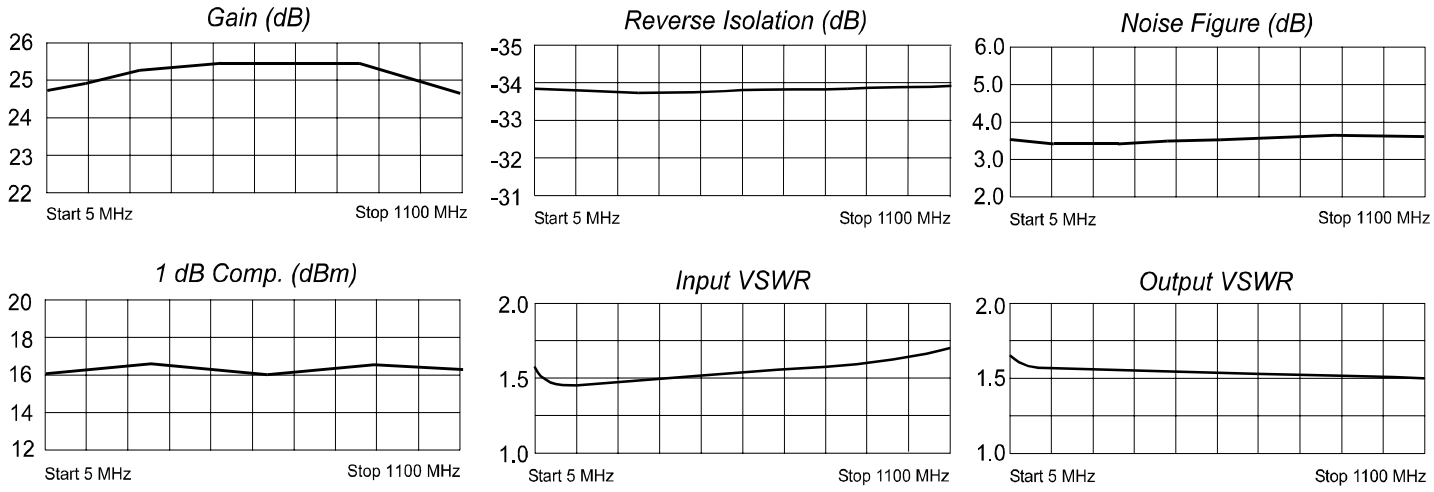
Typical Intermodulation Performance at 25 ºC

Second Order Harmonic Intercept Point ..... +47 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +41 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +28 dBm (Typ.)

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +7 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.)

Typical Performance Data



Legend ——— *+25 ºC*

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