

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 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

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.)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
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	<1.4:1	1.9:1 Max.
Out	<1.4:1	1.9:1 Max.
Noise Figure (dB)	<4.5	6.0 Max.
Power Vdc	+5	+5
mA	70	80 Max.

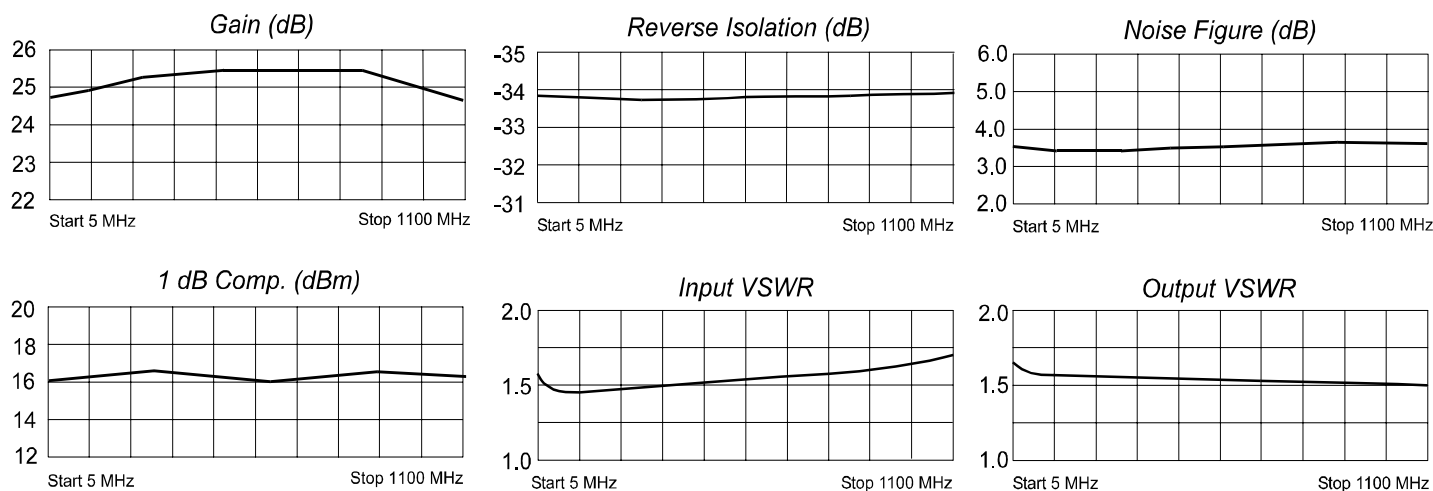
Note: Care should always be taken to effectively ground the case of each unit.

* 0.5 dB less above 900 MHz.

Absolute Maximum (No Damage) Ratings

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



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