RF AMPLIFIER MODEL *TM3009*

Available as: TM3009, 4 Pin TO-8 (T4)
TN3009, 4 Pin Surface Mount (SM3)
FP3009, 4 Pin Flatpack (FP4)
BX3009, Connectorized Housing (H1)

Features

- Low 5 Volt Supply
- Medium Output Power: +13.5 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	30-100 MHz	30-100 MHz
Gain (dB)	17	16 Min.
Power @ 1 dB Comp. (dBm)	+13.5	+10 Min.
Reverse Isolation (dB)	-20.5	-19.5 Max.
VSWR In Out	<1.25:1 <1.25:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	<3.75	5.0 Max.
Power Vdc mA	+5 28	+5 32 Max.

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

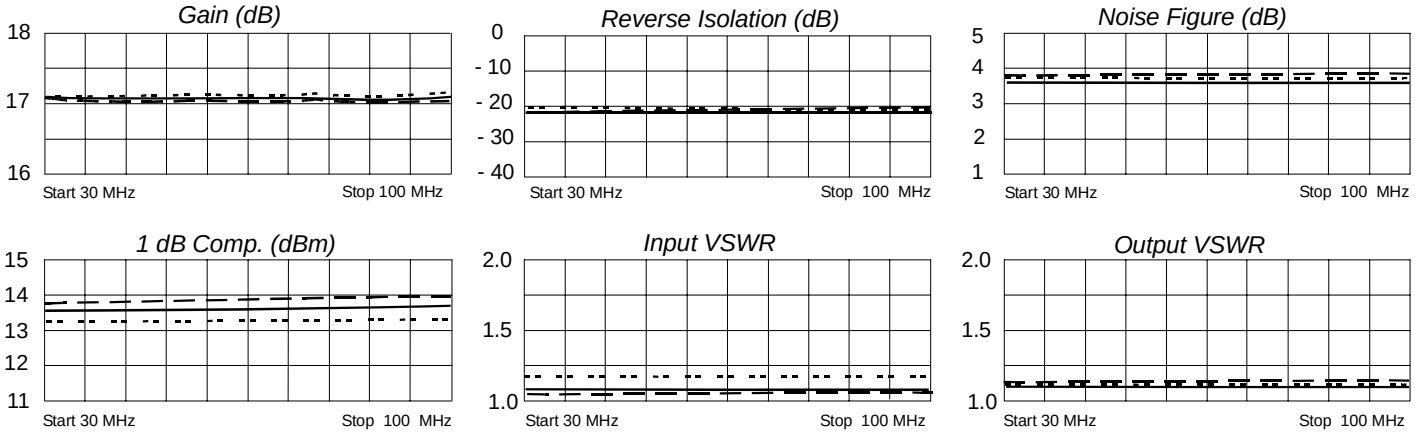
Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +45 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +41 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +27 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 8 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* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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