

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 °C to + 85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
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	<1.25:1	2.0:1 Max.
Out	<1.25:1	2.0:1 Max.
Noise Figure (dB)	<3.75	5.0 Max.
Power Vdc	+5	+5
mA	28	32 Max.

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

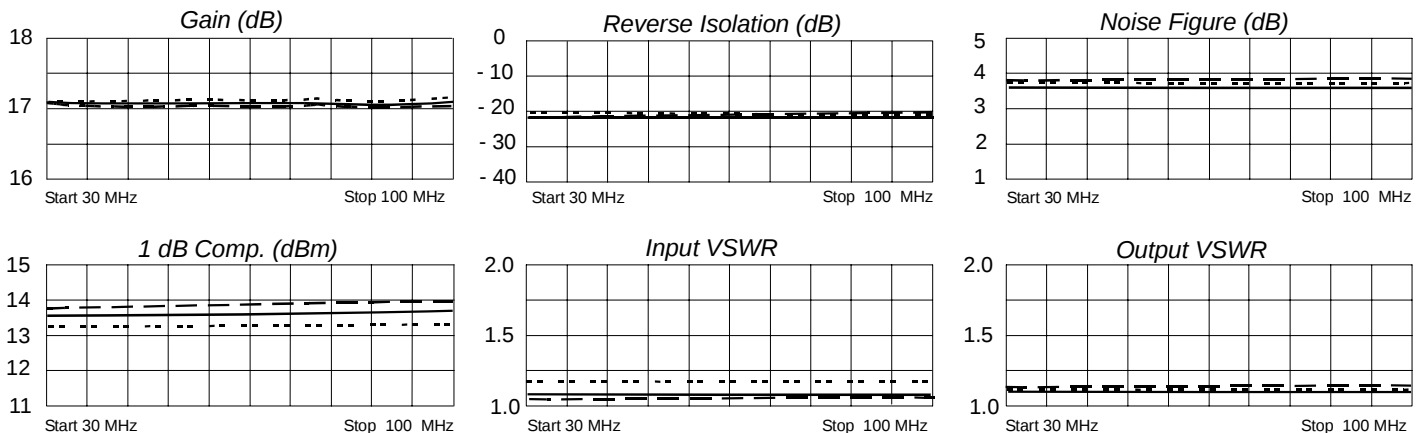
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +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 -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 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 °C - - - - + 85 °C -55 °C



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