RF AMPLIFIER MODEL *TM3027*

Available as: TM3027, 4 Pin TO-8 (T4)
TN3027, 4 Pin Surface Mount (SM3)
FP3027, 4 Pin Flatpack (FP4)
BX3027, Connectorized Housing (H1)

Features

- High Gain: 24 dB Typical
- Low Noise Figure: <2.0 dB Typical
- Operating Temp. - 55 ºC to + 85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +27 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +22 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +19 dBm (Typ.)

Specifications

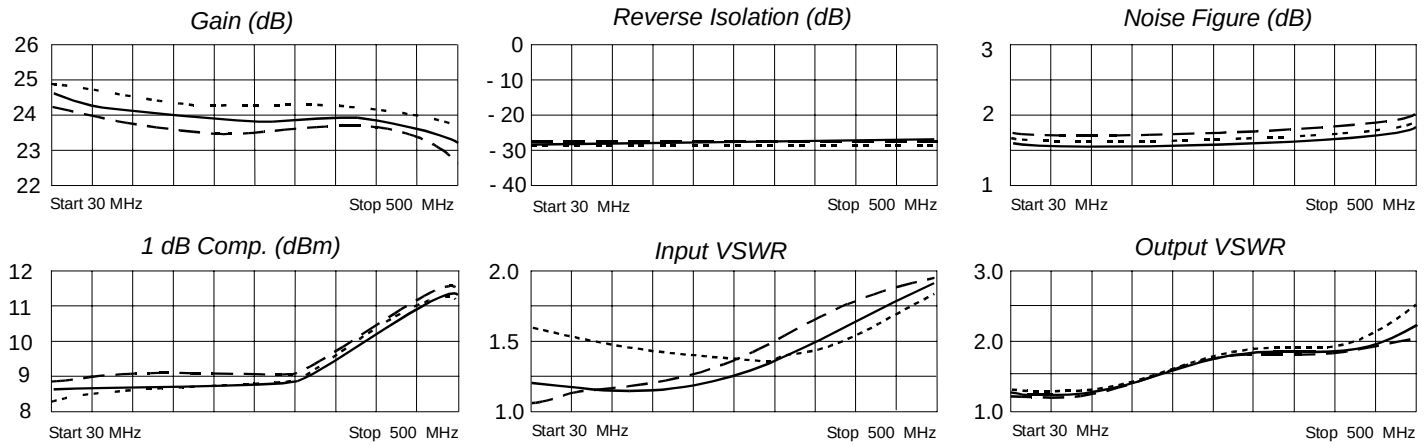
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	30 - 500 MHz	30 - 500 MHz
Gain (dB)	24	22 Min.
Power @ 1 dB Comp. (dBm)	+8.5	+7.0 Min.
Reverse Isolation (dB)	-27	-26 Max.
VSWR In Out	<1.75:1 <2.0:1	2.0:1 Max. 2.8:1 Max.
Noise Figure (dB)	<2.0	2.5 Max.
Power Vdc mA	+15 20	+15 22 Max.

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 Volts
Continuous RF Input Power ..... + 6 dBm
Short Term RF Input Power ..... 100 Milliwatts (1 MinuteMax.)
Maximum Peak Power ..... 0.1 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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