

RF AMPLIFIER

MODEL *TM3050*

Available as: TM3050, 4 Pin TO-8 (T4)
 TN3050, 4 Pin Surface Mount (SM3)
 BX3050, Connectorized Housing (H1)

Features

- High Third Order Intercept: +43 dBm Typical.
- High Output Power: +28 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	10 - 250 MHz	10 - 250 MHz
Gain (dB)	10.5	9.5 Min.
Power @ 1 dB Comp. (dBm)	+28	+26.0 Min.
Reverse Isolation (dB)	-17	-15 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	4.5	6.0 Max.
Power Vdc	+15	+15 Min.
mA	210	230 Max.

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

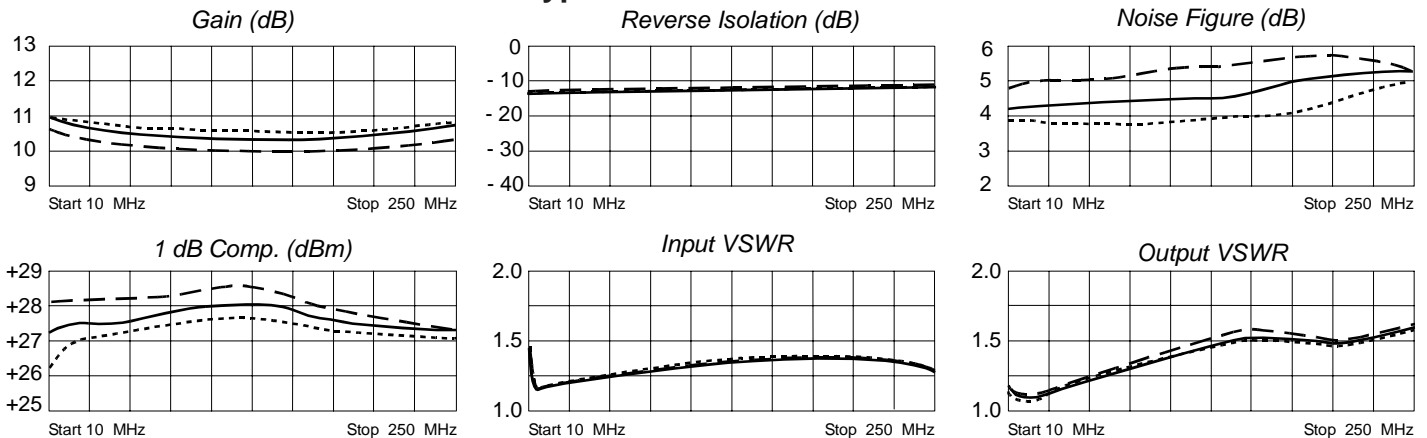
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +73 dBm (Typ.)
 Second Order Two Tone Intercept Point +68 dBm (Typ.)
 Third Order Two Tone Intercept Point +43 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 + 18 Volts
 Continuous RF Input Power + 20 dBm
 Short Term RF Input Power 100 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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