

RF AMPLIFIER

MODEL *TM3051*

Available as: TM3051, 4 Pin TO-8 (T4)
 TN3051, 4 Pin Surface Mount (SM3)
 BX3051, Connectorized Housing (H1)

Features

- Medium Gain: 14 dB Typical
- Medium Output Power: +16.5 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	500 kHz - 80 MHz	500 kHz - 80 MHz
Gain (dB)	14	13 Min.
Power @ 1 dB Comp. (dBm)	+16.5	+16 Min.
Reverse Isolation (dB)	-20	-19 Max.
VSWR In	<2.0:1	3.0:1 Max.
Out	<1.5:1	2.5:1 Max.
Noise Figure (dB)	4.5	5.5 Max.
Power Vdc	+15	+15 Min.
mA	62.5	70 Max.

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

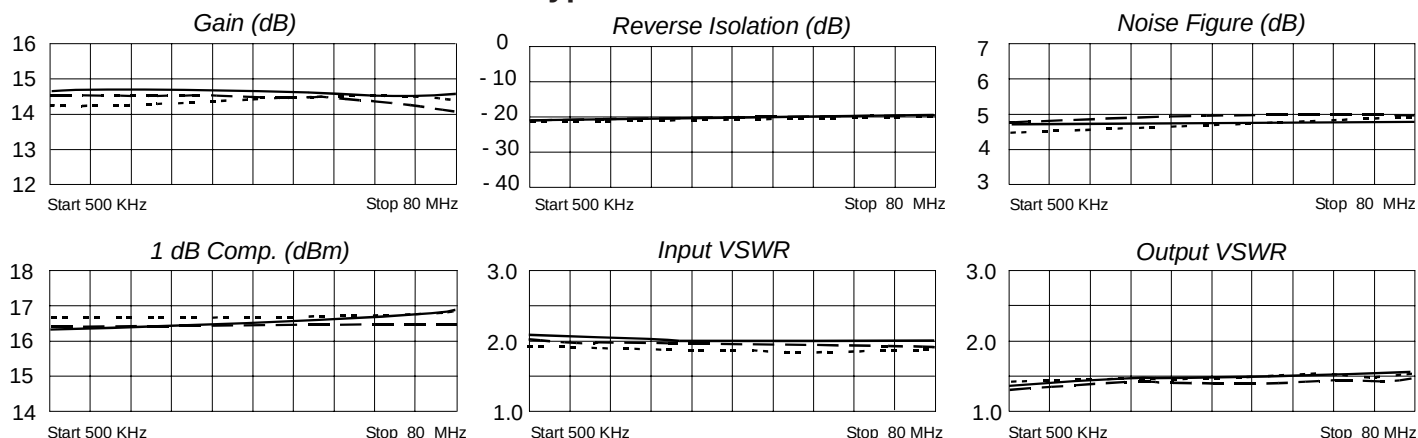
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +47 dBm (Typ.)
 Second Order Two Tone Intercept Point +41 dBm (Typ.)
 Third Order Two Tone Intercept Point +31 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 125 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 18 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