

RF AMPLIFIER

MODEL *TM3053*

Available as: TM3053, 4 Pin TO-8 (T4)
 TN3053, 4 Pin Surface Mount (SM3)
 BX3053, Connectorized Housing (H1)

Features

- High IP3: +36 dBm Typical
- Output Power: +22 dBm Typical
- Operating Temp. -20 °C to + 65 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -20 °C to +65 °C
Frequency	1200 - 1600 MHz	1200 - 1600 MHz
Gain (dB)	9.0	7.5 Min.
Power @ 1 dB Comp. (dBm)	+22	+19 Min.
Reverse Isolation (dB)	-16	-15 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	4.0	8.0 Max.
Power Vdc	+15	+15
mA	90	95 Max.

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

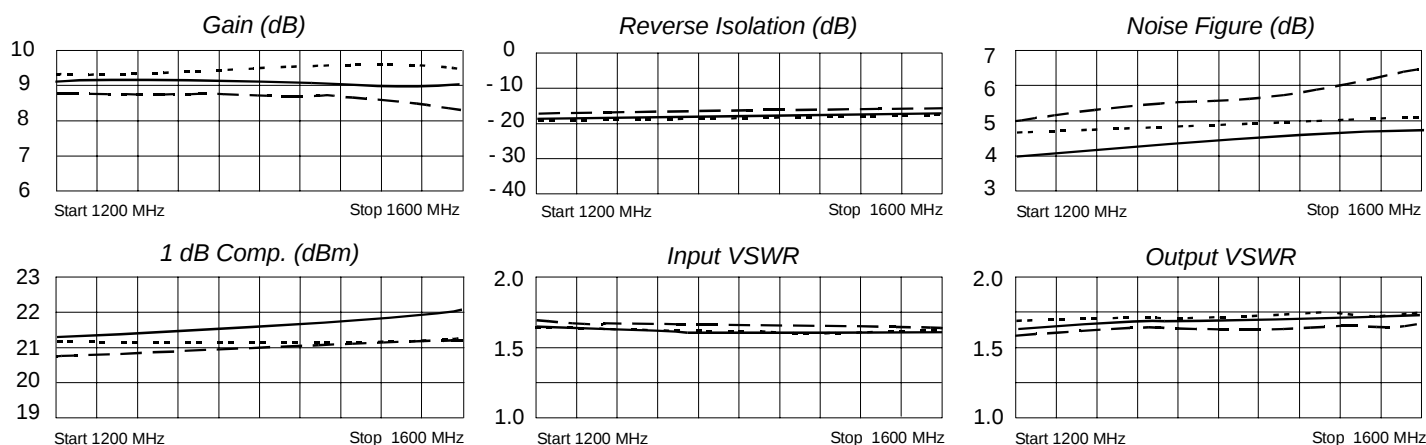
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +51 dBm (Typ.)
 Second Order Two Tone Intercept Point +45 dBm (Typ.)
 Third Order Two Tone Intercept Point +36 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 + 18 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 - - - - + 65 °C -20 °C



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