

RF AMPLIFIER

MODEL *TM3080*

Available as: TM3080, 4 Pin TO-8 (T4)
 TN3080, 4 Pin Surface Mount (SM3)
 BX3080, SMA Connectorized Housing (H1)

Features

- Low +5 Volt Supply
- Wide 100-3000 MHz Bandwidth
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	100-3000 MHz	100-3000 MHz
Gain (dB)	20	18 Min.
Power @ 1 dB (<2000 MHz) Comp. (>2000 MHz)	19 15	18 Min. 14 Min.
Reverse Isolation (dB)	-37	-35 Max.
VSWR In Out	2.20:1 2.20:1	2.5:1 Max. 2.5:1 Max.
Noise Figure (dB)	5.0	7.0 Max.
Power Vdc mA	+5 95	+5 100 Max.

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

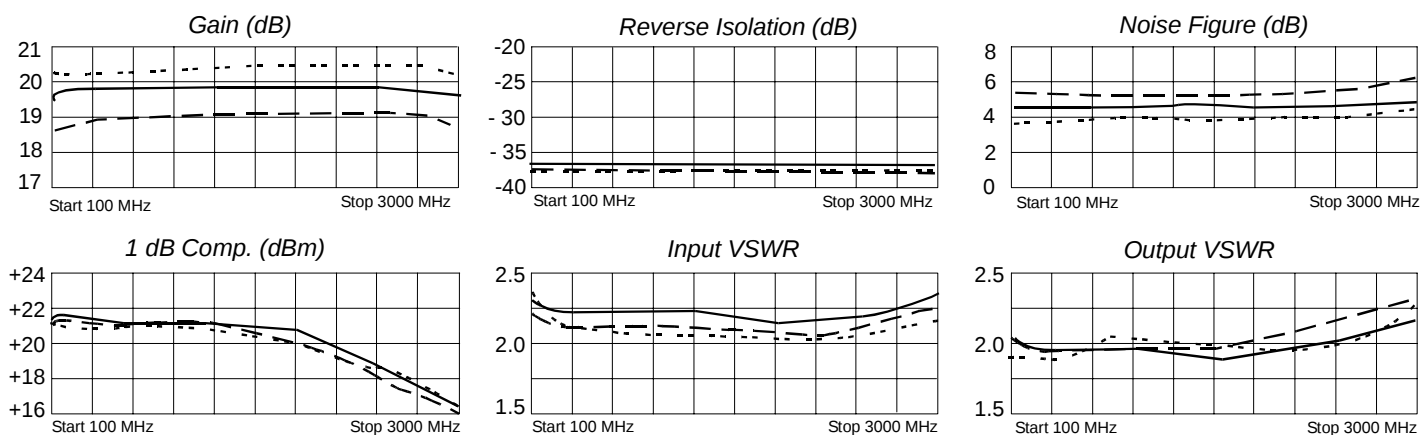
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +47 dBm (Typ.)
 Second Order Two Tone Intercept Point +42 dBm (Typ.)
 Third Order Two Tone Intercept Point +34 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -69°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +8 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power 20 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C -55 °C

