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

Typical Intermodulation Performance at 25 ºC

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.)

Specifications

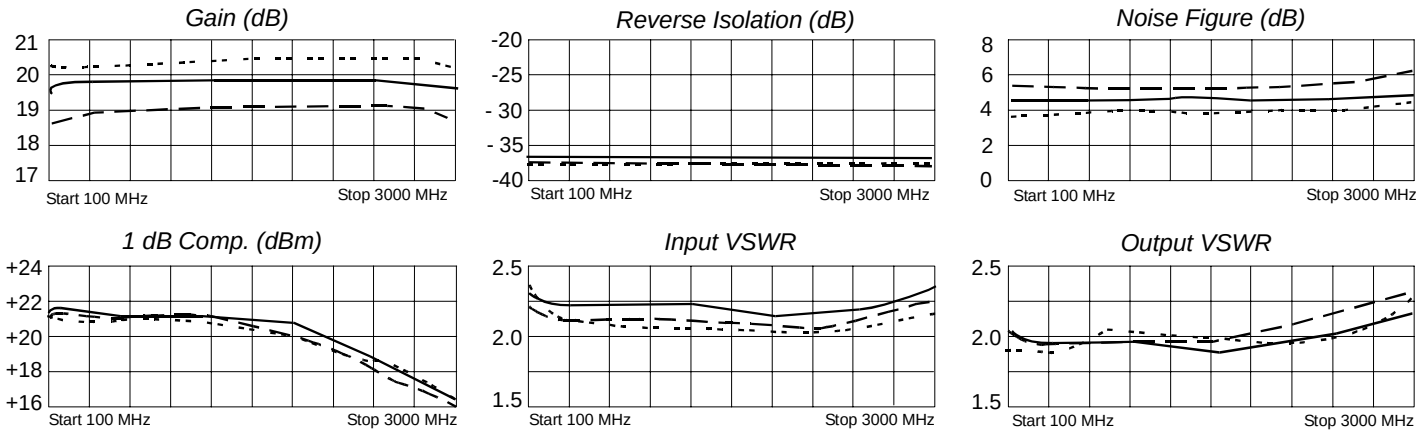
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency (MHz)	100-3000 MHz	100-3000 MHz
Gain (dB)	20	18 Min.
Power @ 1 dB Comp. (<2000 MHz)	19	18 Min
Power @ 1 dB Comp. (>2000 MHz)	15	14 Min.
Reverse Isolation (dB)	-37	-35 Max.
VSWR In	2.20:1	2.5:1 Max
VSWR Out	2.20:1	2.5:1 Max.
Noise Figure (dB)	5.0	7.0 Max.
Power Vdc	+5	+5
Power mA	95	100 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 .....-69ºC to +125 ºC
Case Temperature .....+125 ºC
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 ºC* _ _ _ *+ 85 ºC* - - - - - - *-55 ºC*

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