

RF AMPLIFIER

MODEL *TM3037*

Available as: TM3037, 4 Pin TO-8 (T4)
 TN3037, 4 Pin Surface Mount (SM3)
 FP3037, 4 Pin Flatpack (FP4)
 BX3037, Connectorized Housing (H1)

Features

- Low Noise Figure: <2.0 dB Typical
- High Output Power: +19.5 dBm Typical
- 5 Volt Supply
- Operating Temp. 0 °C to +50 °C

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +50 °C
Frequency	1030 - 1090 MHz	1030 - 1090 MHz
Gain (dB)	13.5	13 Min.
Power @ 1 dB Comp. (dBm)	+19.5	+19.0 Min.
Reverse Isolation (dB)	-21.5	-21 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.95:1	2.0:1 Max.
Noise Figure (dB)	<2.0	2.3 Max.
Power Vdc	+5	+5
mA	78	80 Max.

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

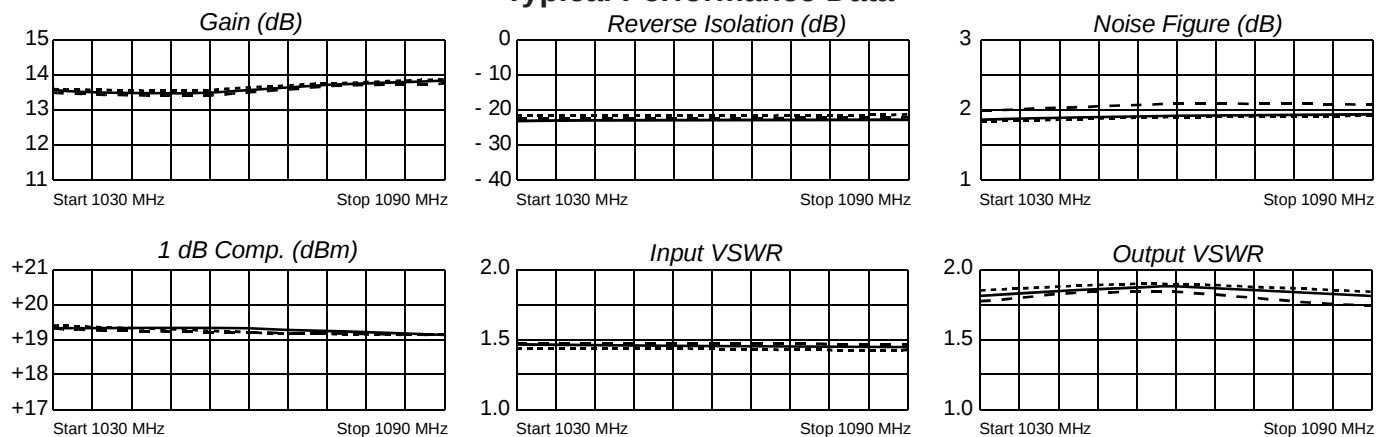
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +51 dBm (Typ.)
 Second Order Two Tone Intercept Point +45 dBm (Typ.)
 Third Order Two Tone Intercept Point +31 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 + 10 Volts
 Continuous RF Input Power + 16 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 - - - + 50 °C 0 °C