

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)
 PN3037, Reduced Size Surface Mount (SM11)

Features

- Low Noise Figure: 2.3 dB Maximum
- High Output Power: +19 dB Minimum
- Operating Temp. 0 °C to +50 °C
- Environmental Screening Available

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	13.5 ± 0.5
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.
VSWR 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.

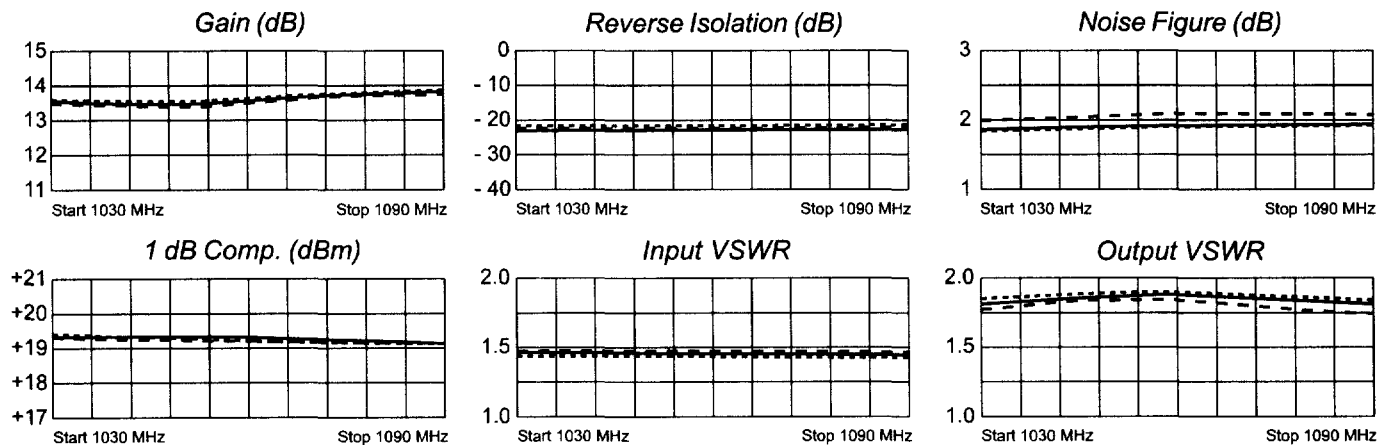
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +51 (Typ.)
 Second Order Two Tone Intercept Point +45 (Typ.)
 Third Order Two Tone Intercept Point +31 (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



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