

RF AMPLIFIER

MODEL *TM3089*

Available as: TM3089, 4 Pin TO-8 (T4)
 TN3089, 4 Pin Surface Mount (SM3)
 FP3089, 4 Pin Flatpack (FP4)
 BX3089, Connectorized Housing (H1)

Features

- Higher Output Power: +24.5 dBm Typical
- Superior Phase Noise Performance
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 160 MHz	10 - 160 MHz
Gain (dB)	20	19 Min.
Power @ 1 dB Comp. (dBm)	24.5	23 Min.
Reverse Isolation (dB)	-22	-21 Max.
VSWR In	1.8:1	2.1:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	2.5	3.0 Max.
Power Vdc	+15	+15
mA	110	120 Max.

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

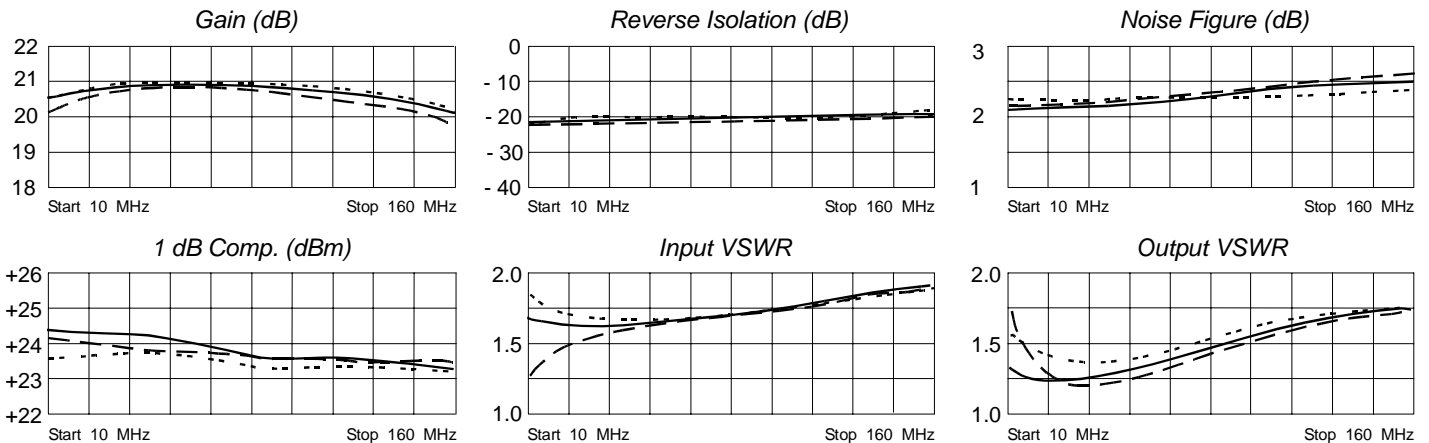
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +58 dBm (Typ.)
 Second Order Two Tone Intercept Point +52 dBm (Typ.)
 Third Order Two Tone Intercept Point +40 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 + 13 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 - - - + 85 °C ······ -55 °C



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