

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

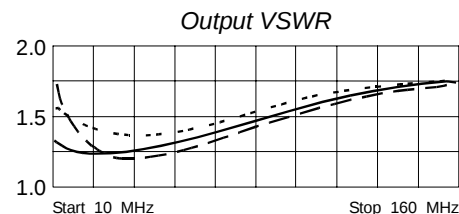
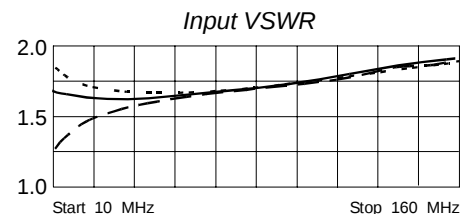
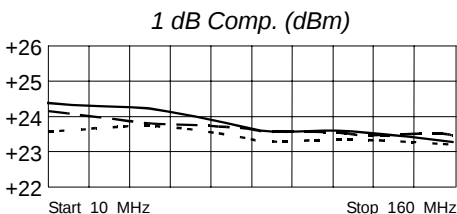
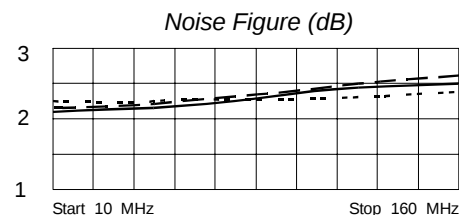
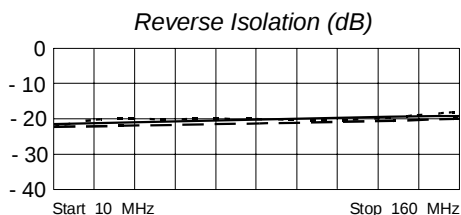
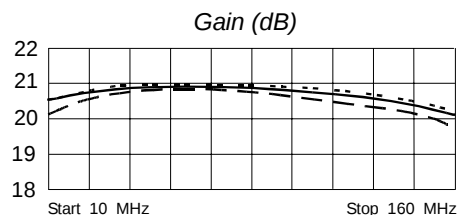
DC Voltage + 18 Volts

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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 01/27/05

www.spectrummicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001