

RF AMPLIFIER

MODEL *TM9369*

Available as: TM9369, 4 Pin TO-8 (T4)
 TN9369, 4 Pin Surface Mount (SM3)
 BX9369, Connectorized Housing (H1)

Features

- High IP3: +34 dBm Typical
- Higher Output Power: +21.5 dBm Typical
- High Gain: 24.5 dB Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 1000 MHz	10 - 1000 MHz
Gain (dB)	24.5	22.5 Min.
Power @ 1 dB Comp. (dBm)	+21.5	+19.5 Min.
Reverse Isolation (dB)	-36	-35 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise figure (dB)	4.0	6.0 Max.
Power Vdc	+15	+15
mA	130	140 Max.

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

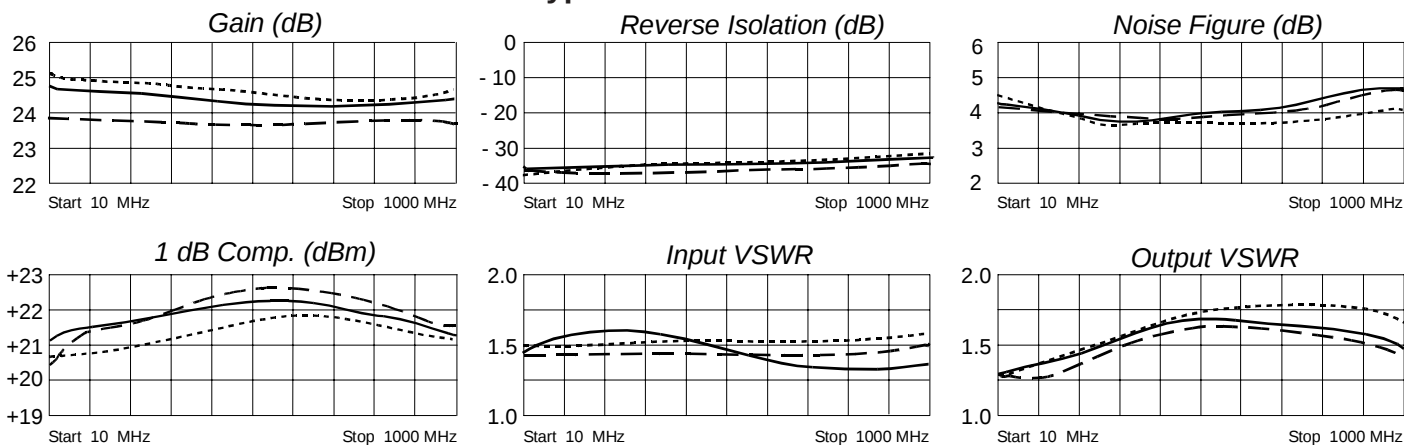
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+56 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+50 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+34 dBm (Typ.)

Absolute Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Operating Case Temperature + 125 °C
 DC Voltage + 17 Volts
 Continuous RF Input Power.....+13 dBm
 Short Term RF input Power.....50 Milliwatts (1 minute Max.)
 Maximum Peak power.....0.5 Watts (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

Rev.
11/9/07

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