

RF AMPLIFIER

MODEL *TM9019*

Available as: TM9019, 4 Pin TO-8 (T4)
 TN9019, 4 Pin Surface Mount (SM3)
 FP9019, 4 Pin Flatpack (FP4)
 BX9019, Connectorized Housing (H1)

Features

- High Gain: +28 dB Typical
- Low Noise Figure: 2.5 dB Typical
- 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 - 800 MHz	10 - 800 MHz
Gain (dB)	28	26 Min.
Power @ 1 dB Comp. (dBm)	+25	+23.0 Min.
Reverse Isolation (dB)	-38	-35
VSWR In	1.5:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	2.5	4.5 Max.
Power Vdc	+15	+15
mA	145	160 Max.

Note: Measured in a 50-Ohm system at +15 Vdc unless otherwise specified.

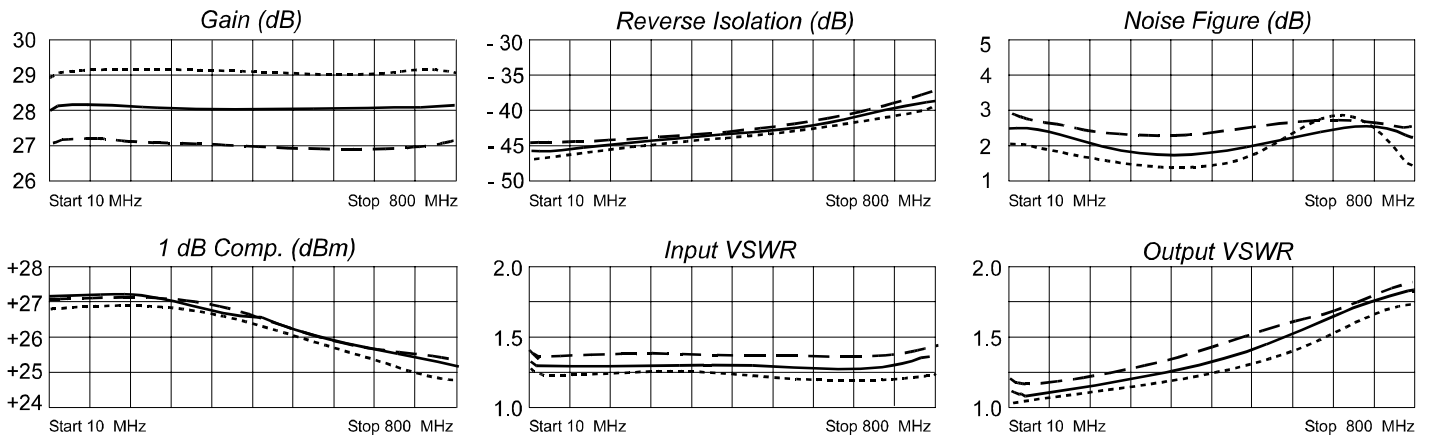
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +56 dBm (Typ.)
 Second Order Two Tone Intercept Point +50 dBm (Typ.)
 Third Order Two Tone Intercept Point +36 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 +17 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

Rev.
10/18/07

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