

RF AMPLIFIER

MODEL *TR9069*

Available as: TR9069, 4 Pin TO-8B (T8)
 RN9069, 4 Pin Surface Mount (SM19)
 BR9069, Connectorized Housing (H2)

Features

- High Output Power: +27.5 dBm Typical
- High Gain: 18 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 (MHz)	50 - 3200 MHz	100 - 3000 MHz
Gain (dB)	18	17 Min.
Gain Flatness (dB)	+/- 0.4	+/- 0.8 Max.
Power @ 1 dB Comp. (dBm)	+27.5	+26.5 Min.
Reverse Isolation (dB)	35	—
VSWR In	1.6:1	1.9:1 Max.
Out	1.6:1	1.9:1 Max.
Noise Figure (dB) (500-3000 MHz)	5.2*	6.5* Max.
Power Vdc	+15	+15
mA	270	300 Max.

* 2.0 dB higher 100-500 MHz

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 +60 dBm (Typ.)

Second Order Two Tone Intercept Point +55 dBm (Typ.)

Third Order Two Tone Intercept Point +40 dBm (Typ.)

*Measured at 1000 MHz.

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C

Storage Temperature -62°C to +125 °C

Case Temperature +125 °C

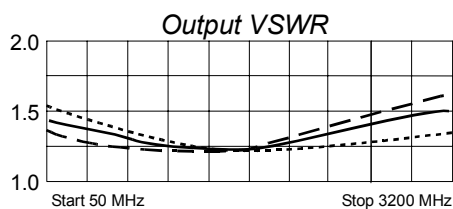
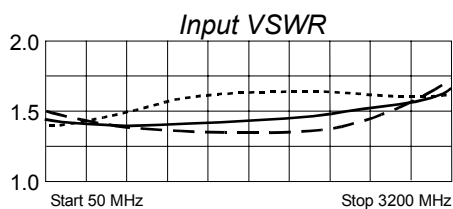
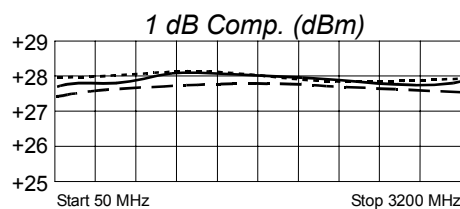
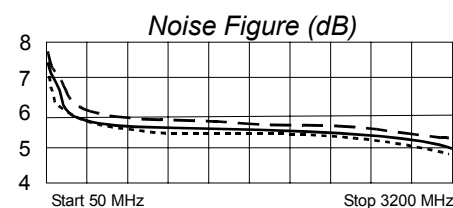
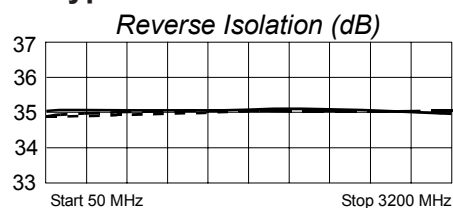
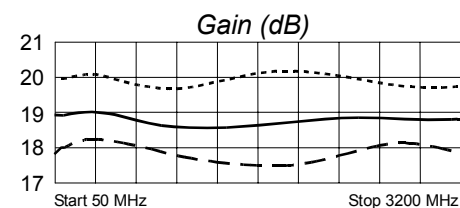
DC Voltage +17 Volts

Continuous RF Input Power +17 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. 12/17/08

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