RF AMPLIFIER MODEL *TR9569*

Available as: TR9569, 4 Pin TO-8B (T8)
RN9569, 4 Pin Surface Mount (SM19)
BR9569, Connectorized Housing (H2)

Preliminary

Features

- High Gain: 18 dB Typical
- High Output Power: +27.5 dBm Typical
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	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	-30 Max.
VSWR In Out	<1.6:1 <1.6:1	1.9:1 Max. 1.9:1 Max.
Noise Figure (dB) 500-3000 MHz	<5.2*	6.5* Max.
Power Vdc mA	+15 270	+15 300 Max.

Note: Care should always be taken to effectively ground the case of each unit.
* 2.0 dB higher at 100 to 500 MHz.

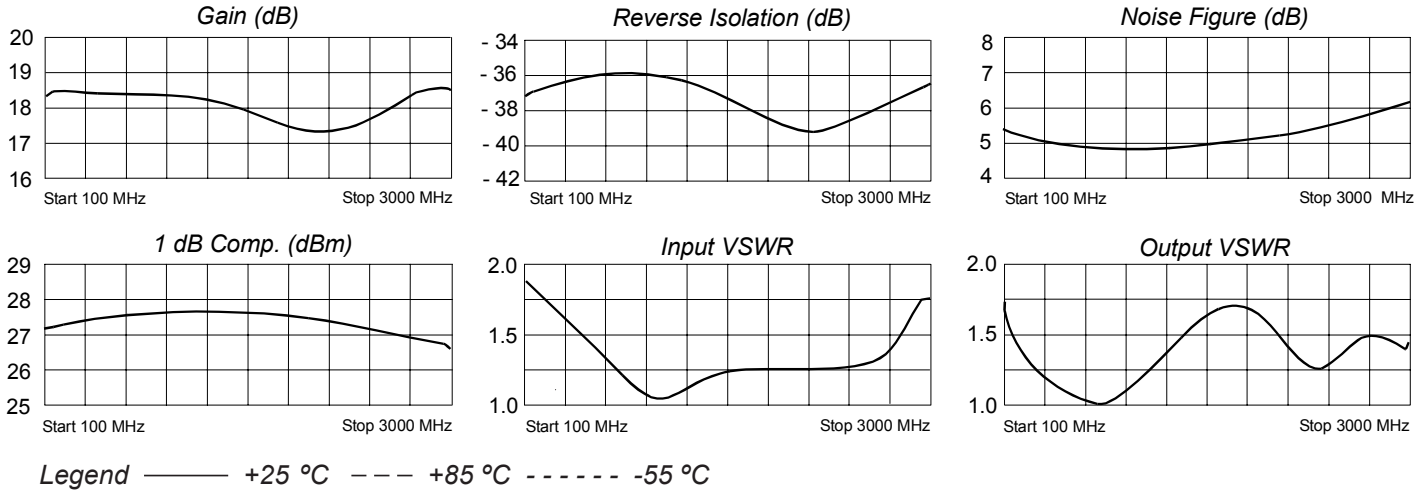
Typical Intermodulation Performance at 25 ºC

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.)

Maximum Ratings

Ambient Operating Temperature .....-55ºC to +100 ºC
Storage Temperature .....-62ºC to +125 ºC
Case Temperature ..... +110 ºC
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 ºC – – – +85 ºC - - - - - - -55 ºC

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Rev. 1/22/09