

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 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
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	<1.6:1	1.9:1 Max.
VSWR 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.

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

* 2.0 dB higher at 100 to 500 MHz.

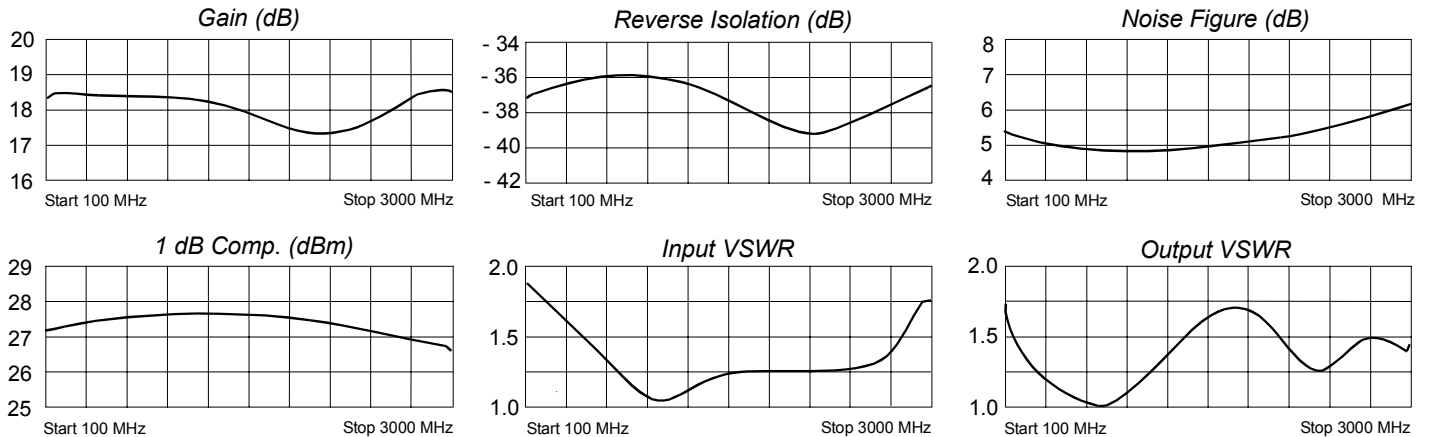
Typical Intermodulation Performance at 25 °C

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.)

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +110 °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

