

# RF AMPLIFIER

## MODEL *TM9113*

Available as: TM9113, 4 Pin TO-8 (T4)  
 TN9113, 4 Pin Surface Mount (SM3)  
 FP9113, 4 Pin Flatpack (FP4)  
 BX9113, Connectorized Housing (H1)

### Features

- Low Noise Figure: 3 dB Typical
- High Gain: 26 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 - 1000 MHz	10 - 1000 MHz
Gain (dB)	26	24 Min.
Power @ 1 dB Comp. (dBm)	+10.0	+8.0 Min.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	3.0	4.0 Max.
Power Vdc	+5	+5
mA	34	40 Max.

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

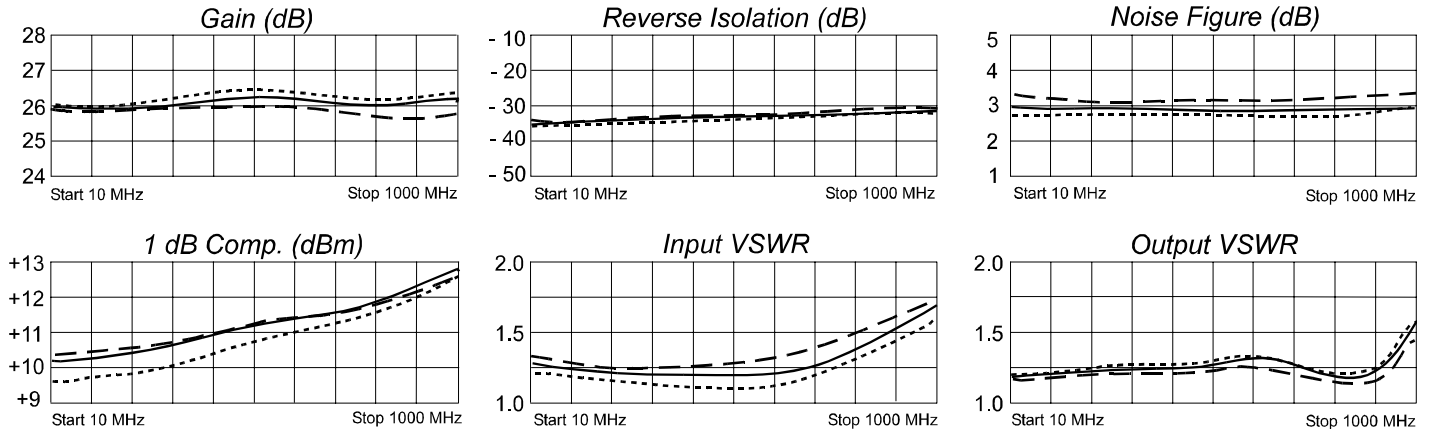
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+46 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+40 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+22 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 ..... +8 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



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