

# RF AMPLIFIER

## MODEL *TM9368*

Available as: TM9368, 4 Pin TO-8LP  
 TN9368, 4 Pin Surface Mount (SM3)  
 BX9368, Connectorized Housing (H1)

Preliminary

### Features

- High Gain: +24.5 dB Typical
- Low Noise Figure: 3.7 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	5 - 1200 MHz	10 - 1000 MHz
Gain (dB)	24.5	22.5 Min.
Gain Flatness (dB)	±0.25	±0.7 Max.
Power @ 1 dB Comp. (dBm)	+18.5	+17 Min.
Reverse Isolation (dB)	-36	-35 Max.
VSWR In	<1.5:1	1.8:1 Max.
Out	<1.5:1	1.8:1 Max.
Noise Figure (dB)	3.7	5.5 Max.
Power Vdc	+15	+15
mA	97	110 Max.

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

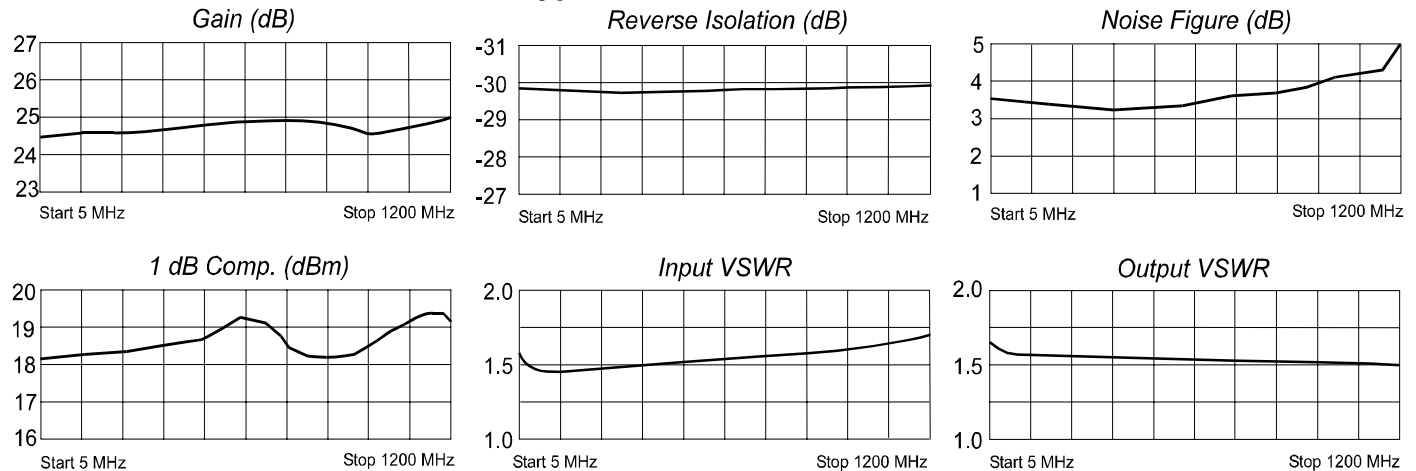
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+54 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+48 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+32 dBm (Typ.)

### Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to +100 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Operating Case Temperature ..... +125 °C  
 DC Voltage ..... +19 Volts  
 Continuous RF Input Power.....+13 dBm  
 Short Term RF input Power....100 Milliwatts (1 minute Max.)  
 Maximum Peak power.....0.5 Watts (3 µsec Max.)

### Typical Performance Data



Legend ——— +25 °C



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