

# RF AMPLIFIER

## MODEL *TM5149*

Available as: TM5149, 4 Pin TO-8 (T4)  
 TN5149, 4 Pin Surface Mount (SM3)  
 FP5149, 4 Pin Flatpack (FP4)  
 BX5149, Connectorized Housing (H1)

### Features

- High Gain: 23.5 dB Typical
- Low Noise Figure: <3 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	5-150 MHz	5-150 MHz
Gain (dB)	23.5	22.5 Min.
Power @ 1 dB Comp. (dBm)	+18	+17.0 Min.
Reverse Isolation (dB)	-29	-28 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	<3.0	3.2 Max.
Power Vdc	+15	+15 Min.
mA	35	38 Max.

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

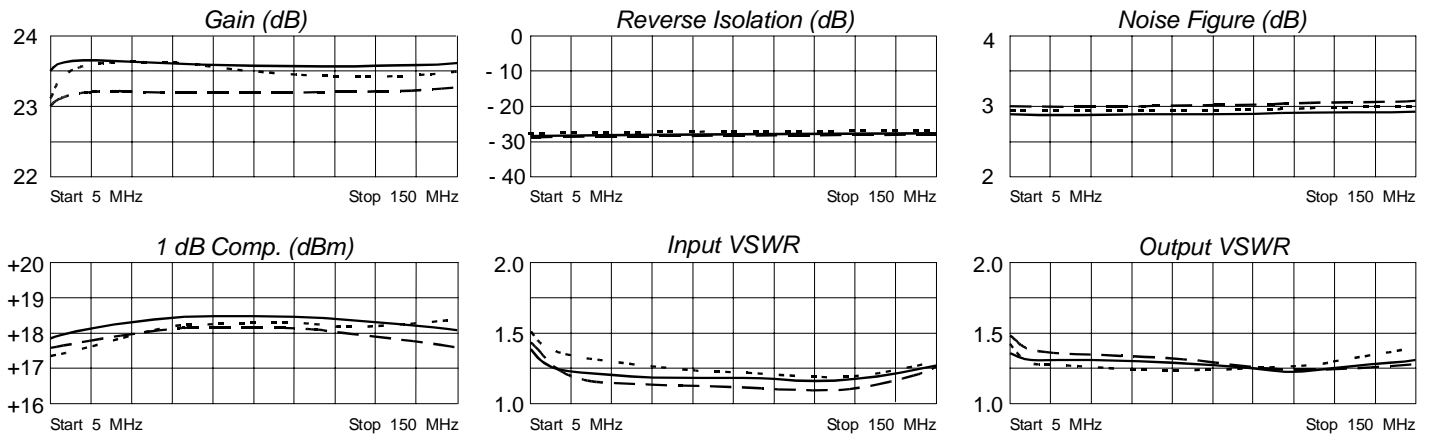
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point..... +43 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+37 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+33 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 ..... + 18Volts  
 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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