

# RF AMPLIFIER

## MODEL *TM5171*

Available as: TM5171, 4 Pin TO-8 (T4)  
 TN5171, 4 Pin Surface Mount (SM3)  
 FP5171, 4 Pin Flatpack (FP4)  
 BX5171, Connectorized Housing (H1)

### Features

- High Output Power: +27 dBm Typical
- High IP3: +39 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	20 - 150 MHz	20 - 150 MHz
Gain (dB)	13.5	13 Min.
Power @ 1 dB Comp. (dBm)	+27	+26 Min.
Reverse Isolation (dB)	-25	-24 Max.
VSWR In	1.5:1	1.6:1 Max.
Out	1.5:1	1.6:1 Max.
Noise Figure (dB)	6.5	7 Max.
Power Vdc	+15	+15
mA	105	110 Max.

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

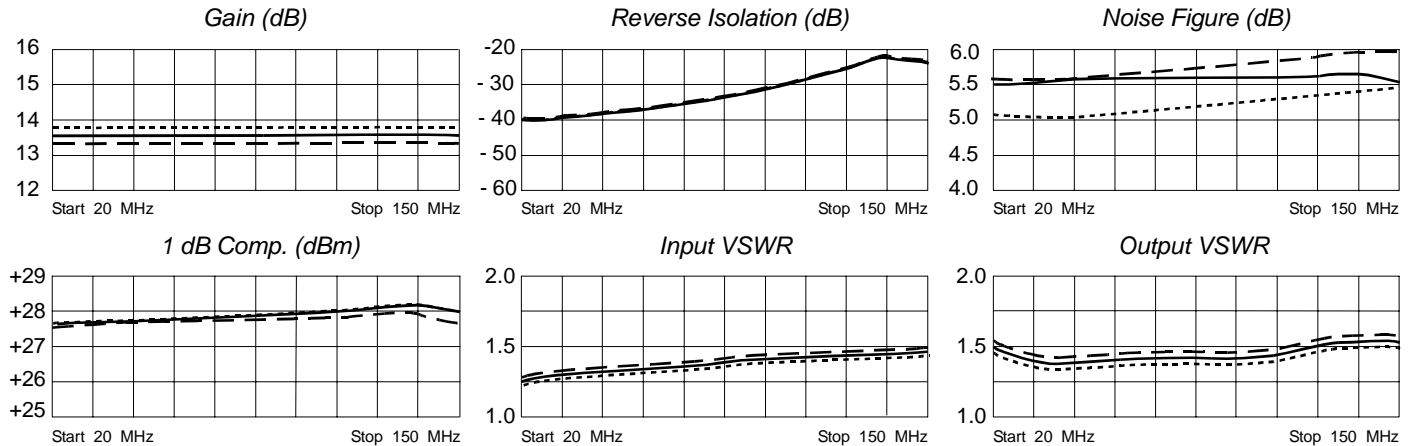
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point ..... +55 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +39 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 ..... + 18 Volts  
 Continuous RF Input Power ..... + 18 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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