

# RF AMPLIFIER

## MODEL *TM7291*

Available as: TM7291, 4 Pin TO-8 (T4)  
 TN7291, 4 Pin Surface Mount (SM3)  
 FP7291, 4 Pin Flatpack (FP4)  
 BX7291, Connectorized Housing (H1)

### Features

- High Output Power: +19.0 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Low Noise Figure: 3.0 dB Typical
- Environmental Screening Available

### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point..... +45 dBm (Typ.)  
 Second Order Two Tone Intercept Point..... +40 dBm (Typ.)  
 Third Order Two Tone Intercept Point..... +31 dBm (Typ.)

### Specifications

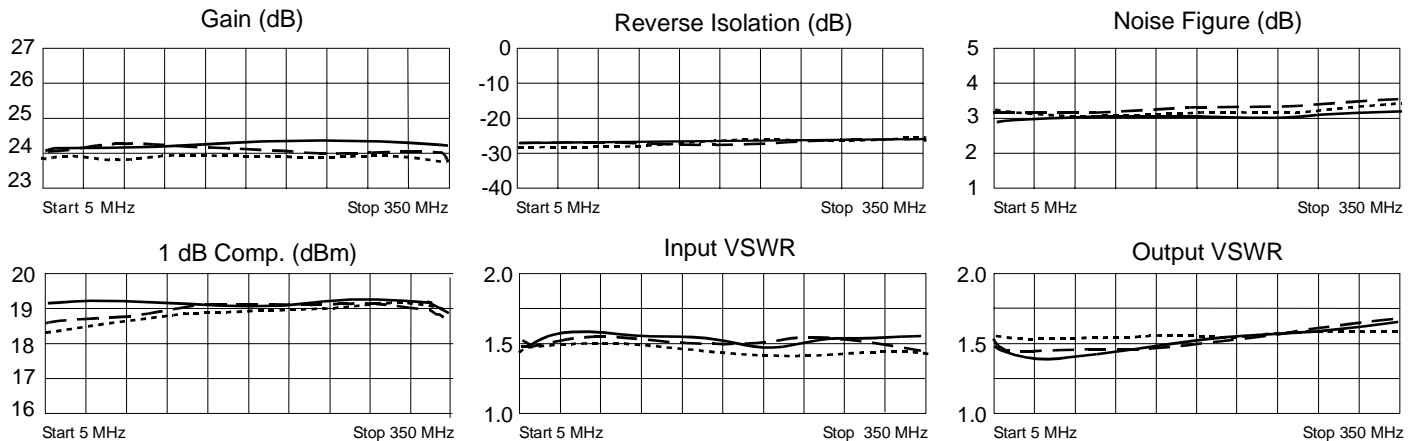
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 350 MHz	10 - 250 MHz
Gain (dB)	24.0	22.7 Min.
Power @ 1 dB Comp. (dBm)	+19.0	+17.5 Min. *
Reverse Isolation (dB)	-28	-25 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.4:1	1.8:1 Max.
Noise Figure (dB)	3.0	4.0 Max.
Power Vdc	+15	+15 Min.
mA	28	32 Max.

### 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 ..... + 10 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.  
 \* .5 dB less below 20 MHz.

### Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -55 °C



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