

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

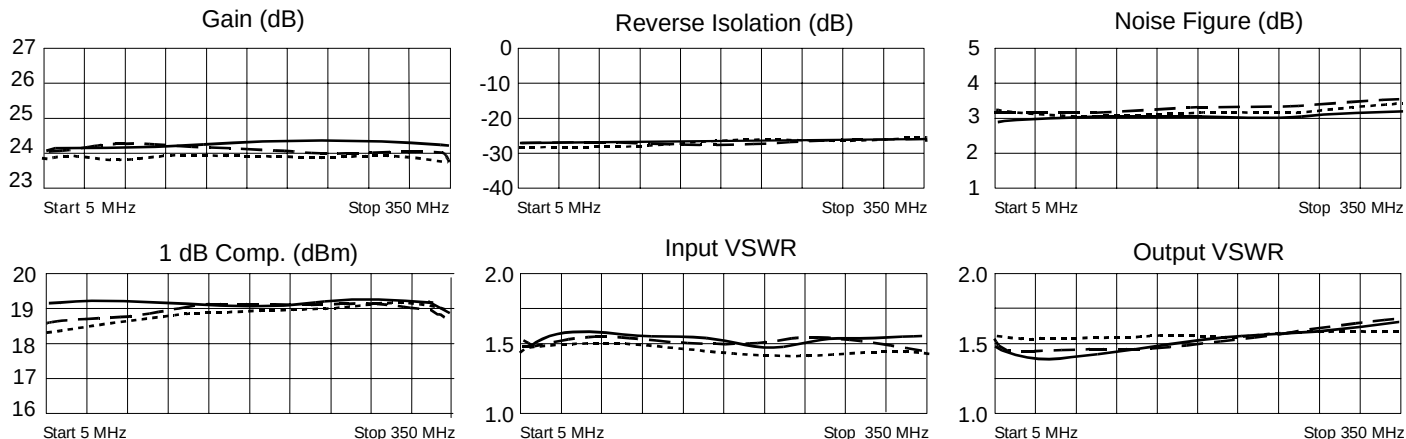
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 350 MHz	10 - 250 MHz
Gain (dB)	24.0	22.7 Min.
Power @ 1 dB Comp. (dBm)	+19.0	+17.5 Min. *
Reverse Isolation (dB)	- 28	- 25 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.4:1	1.8:1 Max.
Noise Figure (dB)	3.0	4.0 Max.
Power Vdc	+15	+15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

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

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.)

Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 10/15/04

www.spectrummicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001