RF AMPLIFIER MODEL *TM3091*

Available as: TM3091, 4 Pin TO-8 (T4)
TN3091, 4 Pin Surface Mount (SM3)
FP3091, 4 Pin Flatpack (FP4)
BX3091, Connectorized Housing (H1)

Features

- Low Noise Figure: 1.7 dB Typical
- Higher Output Power: +23.5 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	15 - 200 MHz	15 - 200 MHz
Gain (dB)	14	13 Min.
Power @ 1 dB Comp. (dBm)	+23.5	+22 Min.
Reverse Isolation (dB)	-21	-19 Max.
VSWR In Out	<1.5:1 <1.5:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	1.7	3.0 Max.
Power Vdc mA	+10 85	+10 90 Max.

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

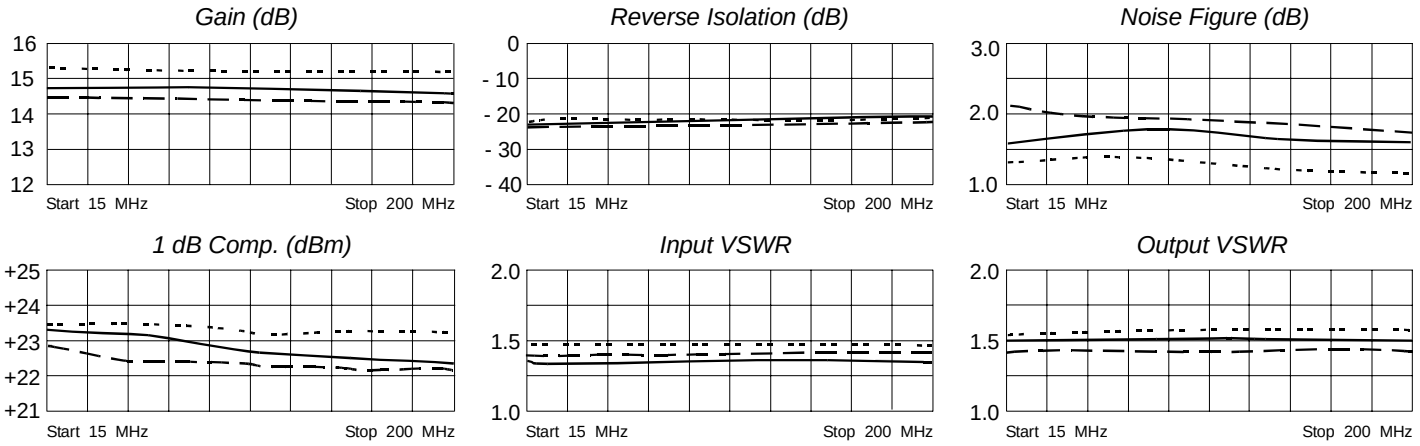
Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +49 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +43 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +36 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 13 Volts
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 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 02/08/05
www.spectrummicrowave.com *Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001*