RF AMPLIFIER
MODEL *TM3093*

Available as: TM3093, 4 Pin TO-8 (T4)
TN3093, 4 Pin Surface Mount (SM3)
FP3093, 4 Pin Flatpack (FP4)
BX3093, Connectorized Housing (H1)

Features

- Higher Output Power: +30 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +59 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +55 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +42 dBm (Typ.)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	10 - 200 MHz	10 - 200 MHz
Gain (dB)	11	10 Min.
Power @ 1 dB Comp. (dBm)	+30	+29 Min.
Reverse Isolation (dB)	-15	-13 Max.
VSWR In Out	1.3:1 1.4:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	5.5	7.0 Max.
Power Vdc mA	+15 330	+15 340 Max.

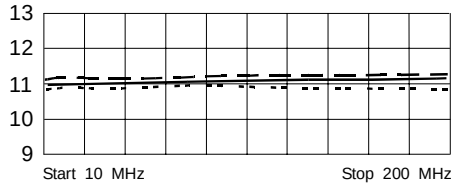
Note: Care should always be taken to effectively ground the case of each unit.

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 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.)

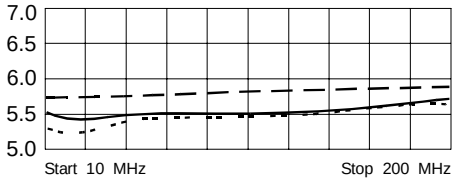
Typical Performance Data

Gain (dB)

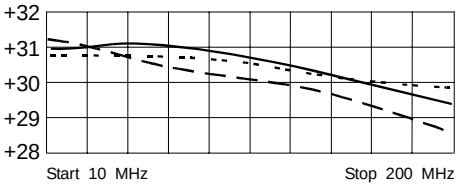


Reverse Isolation (dB)

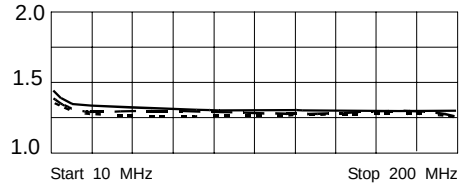
Noise Figure (dB)



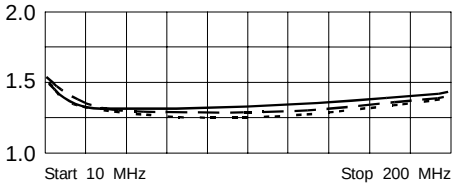
1 dB Comp. (dBm)



Input VSWR



Output VSWR



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 02/09/05
www.spectrummicrowave.com *Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001*