RF AMPLIFIER MODEL *TM3050*

Available as: TM3050, 4 Pin TO-8 (T4)
TN3050, 4 Pin Surface Mount (SM3)
BX3050, Connectorized Housing (H1)

Features

- High Third Order Intercept:+ 43 dBm Typical.
- High Output Power: +28 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	10 - 250 MHz	10 - 250 MHz
Gain (dB)	10.5	9.5 Min.
Power @ 1 dB Comp. (dBm)	+28	+26.0 Min.
Reverse Isolation (dB)	-17	-15 Max.
VSWR In Out	<1.5:1 <1.75:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	4.5	6.0 Max.
Power Vdc mA	+15 210	+15 Min. 230 Max.

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

Typical Intermodulation Performance at 25 º C

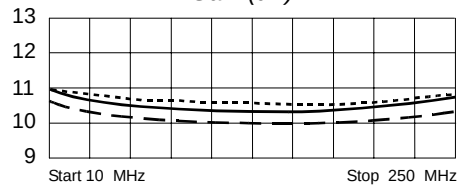
Second Order Harmonic Intercept Point ..... +73 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +68 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +43 dBm (Typ.)

Maximum Ratings

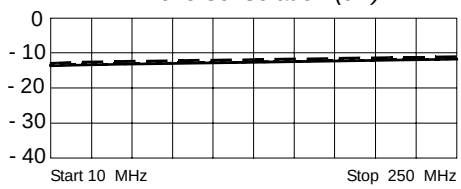
Ambient Operating Temperature .....-55ºC to + 100ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature .....+ 125 ºC
DC Voltage .....+ 18 Volts
Continuous RF Input Power ..... + 20 dBm
Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Typical Performance Data

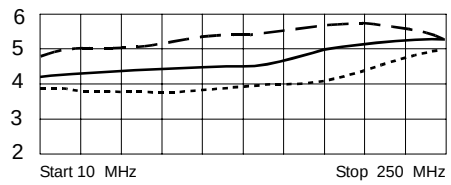
Gain (dB)



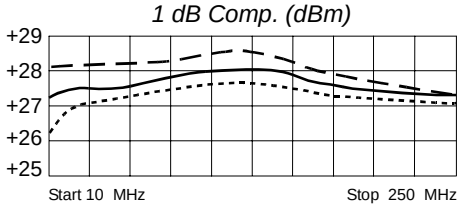
Reverse Isolation (dB)



Noise Figure (dB)



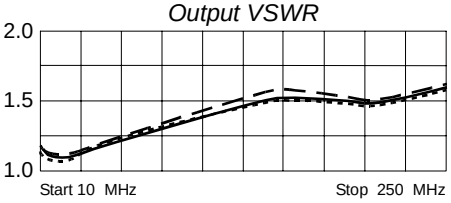
1 dB Comp. (dBm)



Input VSWR



Output VSWR



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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