

RF AMPLIFIER

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MODEL TM3049

Available as: TM3049, 4 Pin TO-8 (T4)
TN3049, 4 Pin Surface Mount (SM3)
BX3049, Connectorized Housing (H1)

Features

- High Output Power: +27 dBm Typical
- High Third Order Intercept: +40 dBm Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10-1700 MHz	10-1700 MHz
Gain (dB)	8.5	7.5 Min.
Power @ 1 dB Comp. (dBm)	+27	+26 Min.
Reverse Isolation (dB)	-13.5	-13 Max.
VSWR In	<1.85:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	6.2*	6.5* Max.
Power Vdc	+15	+15
mA	170	190 Max.

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

* Noise Figure >6.5 dB below 100 MHz

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +54 dBm (Typ.)

Second Order Two Tone Intercept Point +48 dBm (Typ.)

Third Order Two Tone Intercept Point +40 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C

Storage Temperature -62°C to + 125 °C

Case Temperature + 125 °C

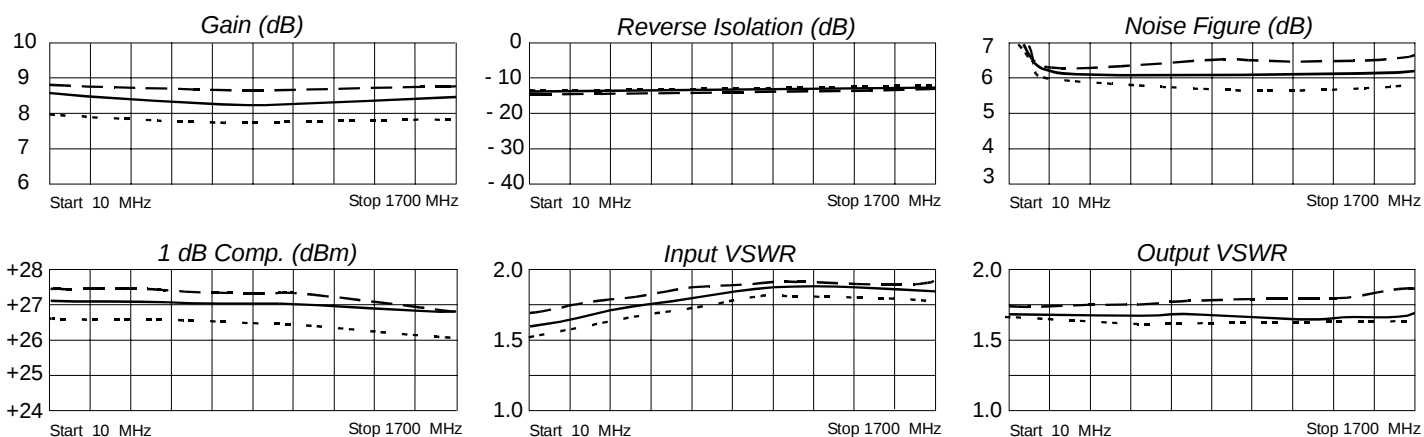
DC Voltage + 18 Volts

Continuous RF Input Power + 13 dBm

Short Term RF Input Power 50 Milliwatts (1 Minute Max.)

Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



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