

RF AMPLIFIER

MODEL *TM3059*

Available as: TM3059, 4 Pin TO-8 (T4)
 TN3059, 4 Pin Surface Mount (SM3)
 BX3059, Connectorized Housing (H1)

Features

- High Gain: 25.0 dB Typical
- Output Power: +14.5 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	450 - 950 MHz	450 - 950 MHz
Gain (dB)	25.0	23.5 Min.
Power @ 1 dB Comp. (dBm)	+14.5	+ 14.0 Min.
Reverse Isolation (dB)	-30	-28 Max.
VSWR In	1.75:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	3.5	4.7 Max.
Power Vdc	+5	+5
mA	77	85 Max.

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

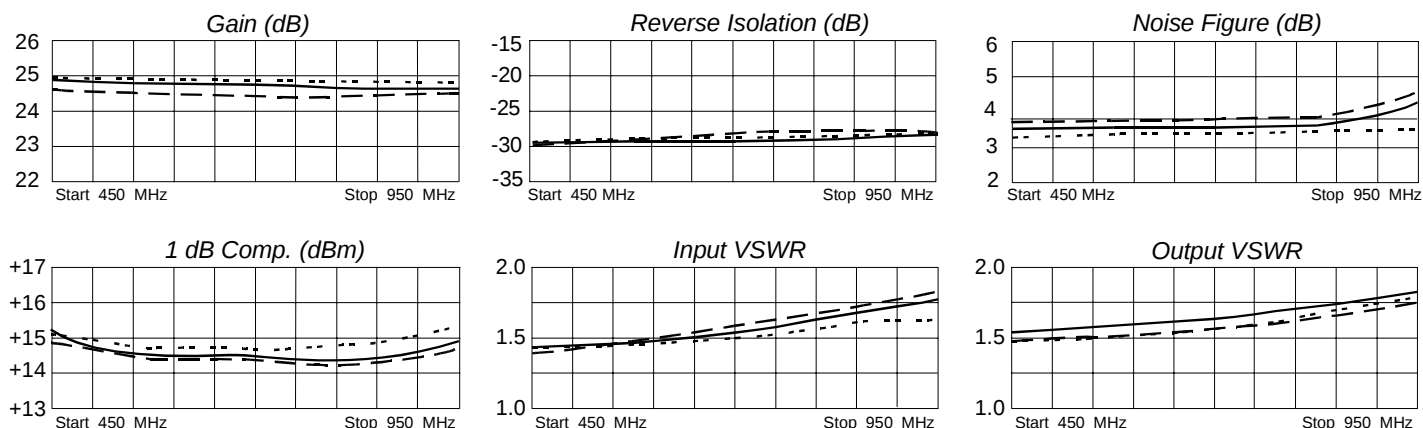
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +40 dBm (Typ.)
 Second Order Two Tone Intercept Point +34 dBm (Typ.)
 Third Order Two Tone Intercept Point +27 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 + 8 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 °C - - - - + 85 °C -55 °C