

RF AMPLIFIER

MODEL *TM9270*

Available as: TM9270, 4 Pin TO-8 (T4)
 TN9270, 4 Pin Surface Mount (SM3)
 BX9270, Connectorized Housing (H1)

Features

- Low Noise Figure: 1.3 dB Typical
- High IP3: +33 dBm Typical
- Operating Temperature -40 °C to +70°C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	500 - 2500 MHz	500 - 2500 MHz
Gain (dB)	17.5	16.0 Min.
Power @ 1 dB Comp. (dBm)	+20	+19 Min.
Reverse Isolation (dB)	-23	-20 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.25:1	2.0:1 Max.
Noise Figure (dB)	1.3	2.0 Max.
Power Vdc	+5	+5
mA	65	75 Max.

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

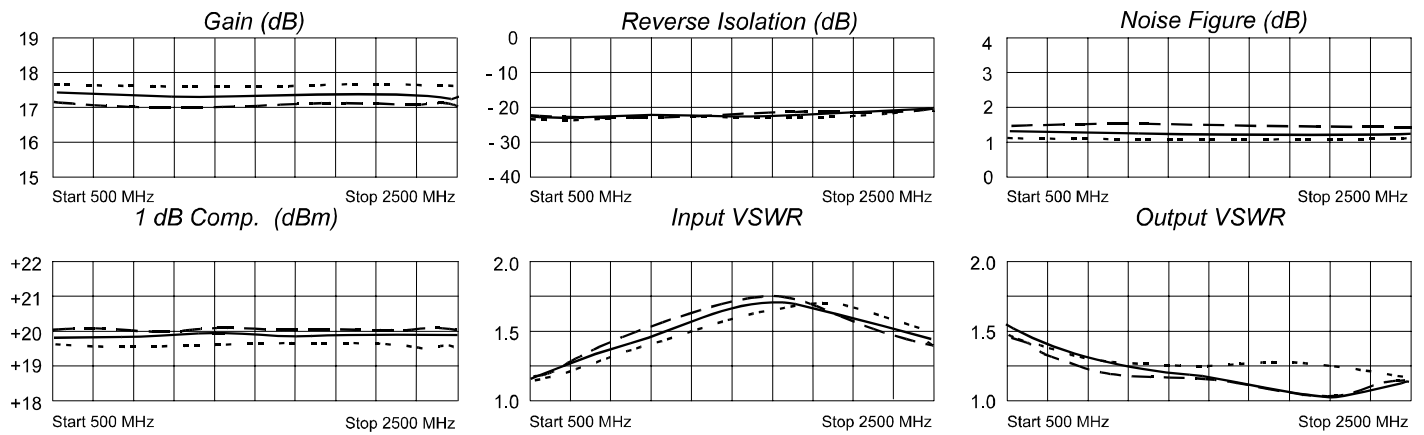
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+52 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+47 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+33 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 +10 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— +25 °C - - - - +70 °C ······ -40 °C



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