

RF AMPLIFIER

MODEL *TM9170*

Available as: TM9170, 4 Pin TO-8 (T4)
 TN9170, 4 Pin Surface Mount (SM3)
 FP9170, 4 Pin Flatpack (FP4)
 BX9170, Connectorized Housing (H1)

Preliminary

Features

- High Gain: 22.0 dB Typical
- Medium Noise Figure: 5.0 dB 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	5 - 1200 MHz	10 - 1200 MHz
Gain (dB)	22.0	21.0 Min.
Power @ 1 dB Comp. (dBm)	+17	+15 Min.
Reverse Isolation (dB)	-30	-28 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	5.0	7.0 Max.
Power Vdc	+15	+15
mA	85	95 Max.

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

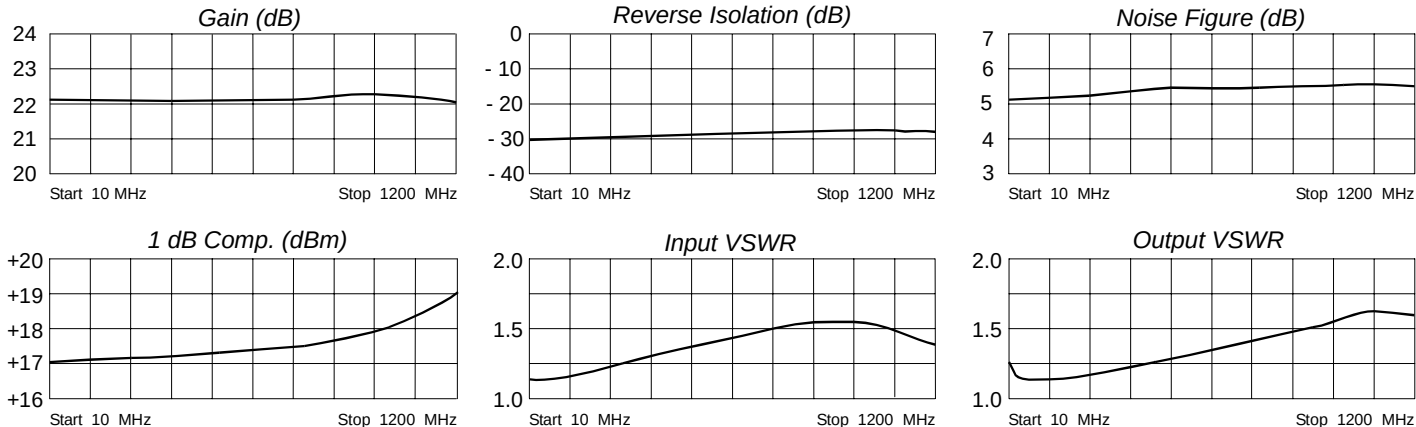
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+42 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+37 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 + 17 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



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