

RF AMPLIFIER

MODEL *TM9092*

Available as: TM9092, 4 Pin .500" TO-8LP (Low Profile)
 TN9092, 4 Pin .450" Sq. Surface Mount (SM3)
 BX9092, SMA Connectorized Housing (H1)
 BXP9092, SMA Connectorized Housing (HPak)

Features

- Wide Bandwidth 30-2200 MHz
- Low Noise Figure: 1.5 dB
- Cross to the Cougar AC2092, our Model TM9092
- Cross to the Cougar ACP2092, our Model BXP9092
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	30 -2200 MHz	30 -2000 MHz
Gain	18.0 dB	16.0 dB Min.
Gain Flatness	+/- 0.4 dB	+/- 0.7 Max.
Noise Figure (300-2000 MHz)	<1.5 dB	2.0 dB Max.
VSWR In	1.50:1	2.0:1 Max.
Out	1.50:1	2.0:1 Max.
Power @ 1 dB Comp.	+21.5 dBm	+20.0 dBm Min.
Reverse Isolation	23 dB	—
Power Vdc	+5	+5
mA	100	108 Max.

Typical Intermodulation Performance at 25 °C*

Second Order Harmonic Intercept Point..... +56 dBm (Typ.)

Second Order Two Tone Intercept Point.....+50 dBm (Typ.)

Third Order Two Tone Intercept Point.....+38 dBm (Typ.)

*Typical @ 25°C measured at 500 MHz

Absolute Maximum (No Damage) Ratings

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

Storage Temperature -62°C to +125 °C

Case Temperature +125 °C

DC Voltage +12 Volts

Continuous RF Input Power +21 dBm

Short Term RF Input Power +24 dBm (1 Minute Max.)

Maximum Peak Power +27 dBm (3 µsec Max.)

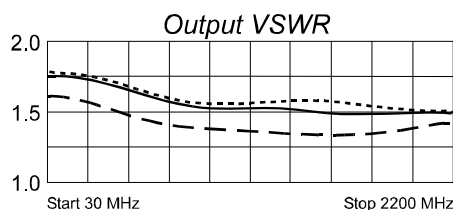
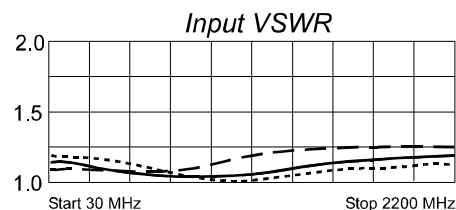
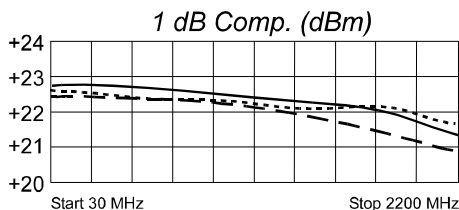
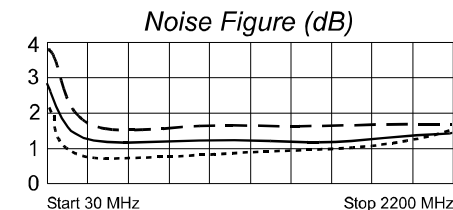
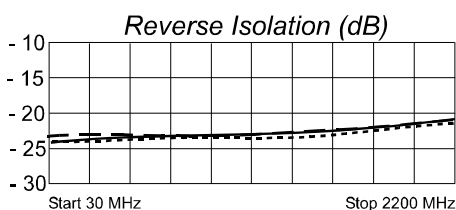
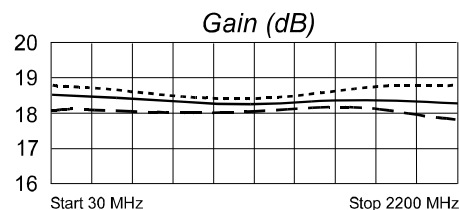
Note: Measured in a 50 ohm system at +5 volts DC.

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

Thermal Resistance: 52.5°C/Watt

Revision; 11/4/2015

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C



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