

RF AMPLIFIER

MODEL *TM9308*

Available as: TM9308, 4 Pin 0.500" TO-8 (T4)
 TN9308, 4 Pin 0.450" Sq. Surface Mount (SM3)
 BX9308, SMA Connectorized Housing (H1)
 BXP9308, SMA Connectorized Housing (HCP1)

Features

- High Output Power: +26 dBm Typical
- Ultra Broad Bandwidth 20-3000 MHz
- Cross to the Cougar AP3008, our Model TM9308
- Cross to the Cougar ACP3008, our Model BXP9308
- Screening to the Tables of MIL-STD-883 Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 3200 MHz	20 - 3000 MHz
Gain	12.5 dB	10.5 dB Min.
Gain Flatness	+/- 0.5 dB	+/- 0.9 dB Max.
Noise Figure (200 - 3000 MHz)	3.0 dB	4.3 dB
VSWR In	1.7:1	2.0:1 Max.
VSWR Out	1.7:1	2.0:1 Max.
Power @ 1 dB Comp. (20-2500 MHz) (2500-3000 MHz)	+26.0 dBm +25.0 dBm	+24.5 dBm Min. +23.0 dBm Min.
Reverse Isolation	-21 dB	-
Power Vdc	+15	+15
mA	185	190 Max.

Typical Intermodulation Performance at 25 °C

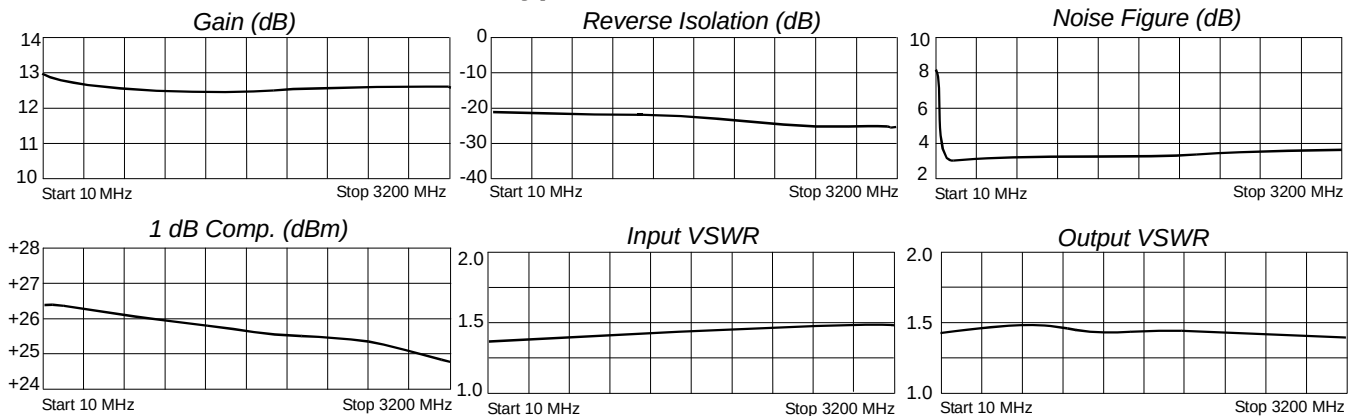
Second Order Harmonic Intercept Point.....+64 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+58 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+40 dBm (Typ.)
 (Typical at 25°C under a +15 volt supply)

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 +18 Volts
 Continuous RF Input Power +23 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.
 Revision 7/31/2014

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C



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