

RF AMPLIFIER

MODEL *TM9064*

Available as: TM9064, 4 Pin 0.500" TO-8 (T4)
 TN9064, 4 Pin 0.450" Sq. Surface Mount (SM3)
 BX9064, SMA Connectorized Housing (H1L-Laser)
 BXP9064, SMA Connectorized Housing (HPak)

Features

- Ultra Broad Bandwidth 100-3000 MHz
- High Gain: 18.5 dB Typical
- Cross to the Cougar AC3064, our Model BX9064
- Cross to the Cougar ACP3064, our Model BXP9064
- Screening to the Tables of MIL-STD-883 Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	100 - 3000 MHz	100 - 3000 MHz
Gain	18.5 dB	16.5 dB Min.
Gain Flatness	+/- 0.3 dB	+/- 0.8 dB Max.
Noise Figure (dB) (400-3000 MHz)	3.3 dB	4.5 dB Max.
(100-400 MHz)	4.5 dB	5.5 dB Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Power Output @ 1 dB Comp. (dBm)	+16.5 dBm	+15.0 dBm
Reverse Isolation (dB)	-36 dB	-
Power Vdc	+15	+15
mA	80	88 Max.

Typical Intermodulation Performance at 25 °C

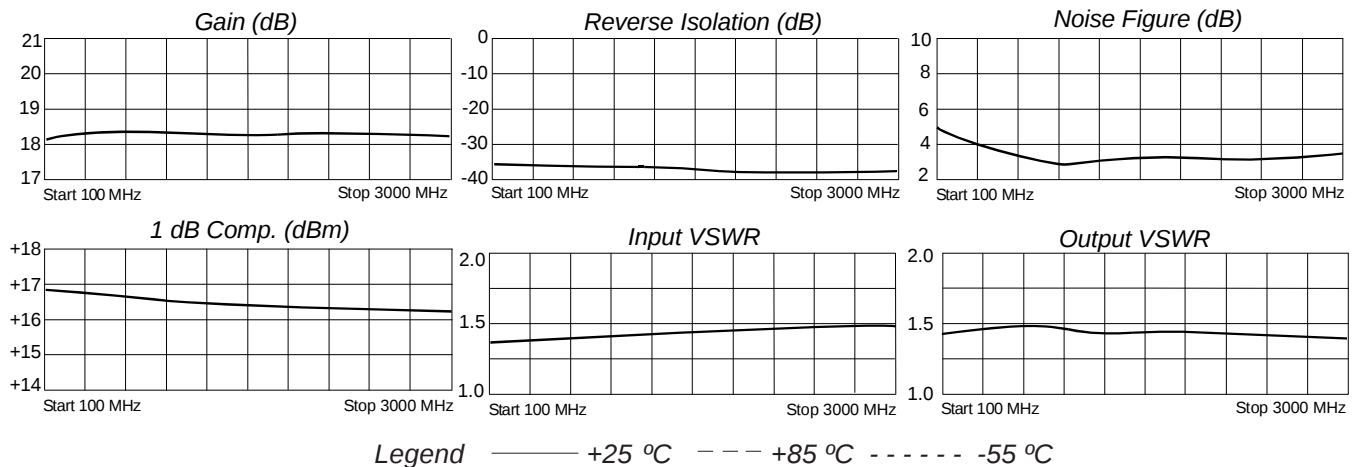
Second Order Harmonic Intercept Point.....+52 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+46 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+27 dBm (Typ.)
 (Typical at 25°C under a +15 volt supply)

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+17 Volts
 Continuous RF Input Power+13 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

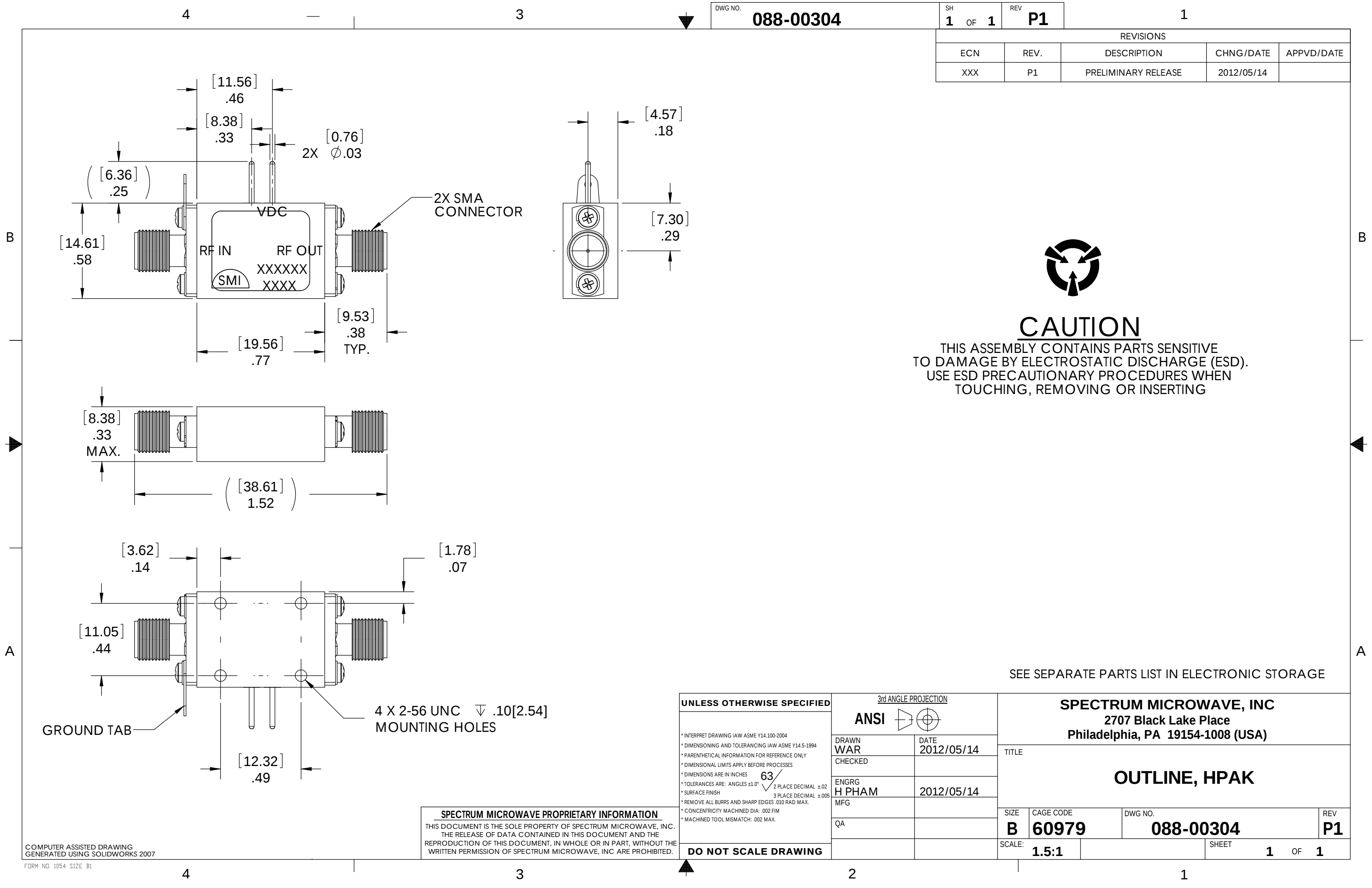
Note: Care should always be taken to effectively ground the case of each unit.
 Revision 5/16/2012

Typical Performance Data



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REVISIONS					
ECN	REV.	DESCRIPTION		CHNG/DATE	APPVD/DATE
XXX	P1	PRELIMINARY RELEASE		2012/05/14	



CAUTION
THIS ASSEMBLY CONTAINS PARTS SENSITIVE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). USE ESD PRECAUTIONARY PROCEDURES WHEN TOUCHING, REMOVING OR INSERTING

SEE SEPARATE PARTS LIST IN ELECTRONIC STORAGE

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ANSI		DRAWN WAR		2707 Black Lake Place	
CHECKED		DATE 2012/05/14		Philadelphia, PA 19154-1008 (USA)	
ENGRG H PHAM		2012/05/14		TITLE	
MFG				OUTLINE, HPAK	
QA				SIZE B	REV P1
DO NOT SCALE DRAWING		CAGE CODE 60979		DWG NO. 088-00304	
		SCALE: 1.5:1		SHEET 1 OF 1	