

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 @ 25C measured at 500 MHz

Absolute Maximum (No Damage) Ratings

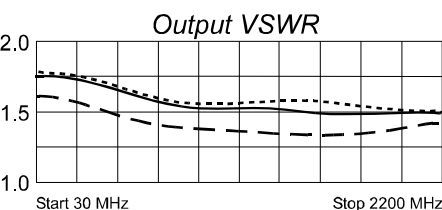
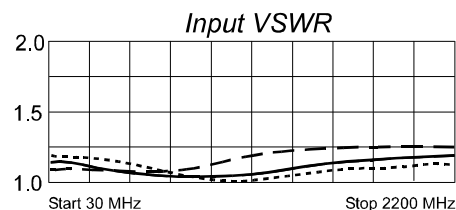
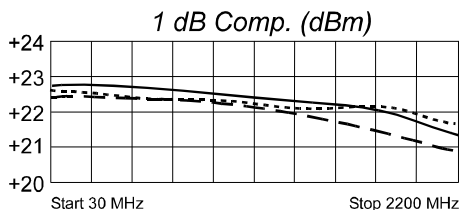
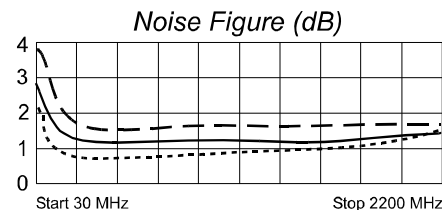
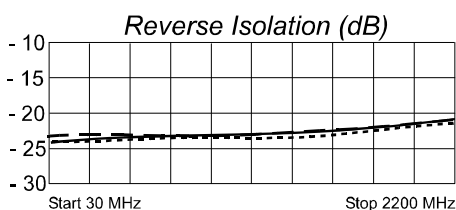
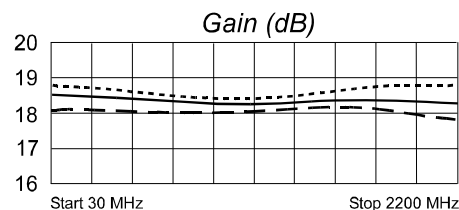
Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature..... -62°C to +125 °C
 Case Temperature..... +125 °C
 DC Voltage +12 Volts
 Continuous RF Input Power..... +21 dBm
 Short Term RF Input Power..... +24 dBm (1 Minute Max.)
 Maximum Peak Power..... +27 dBm (3µsec Max.)

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.

Revision 5/14/2012

Typical Performance Data



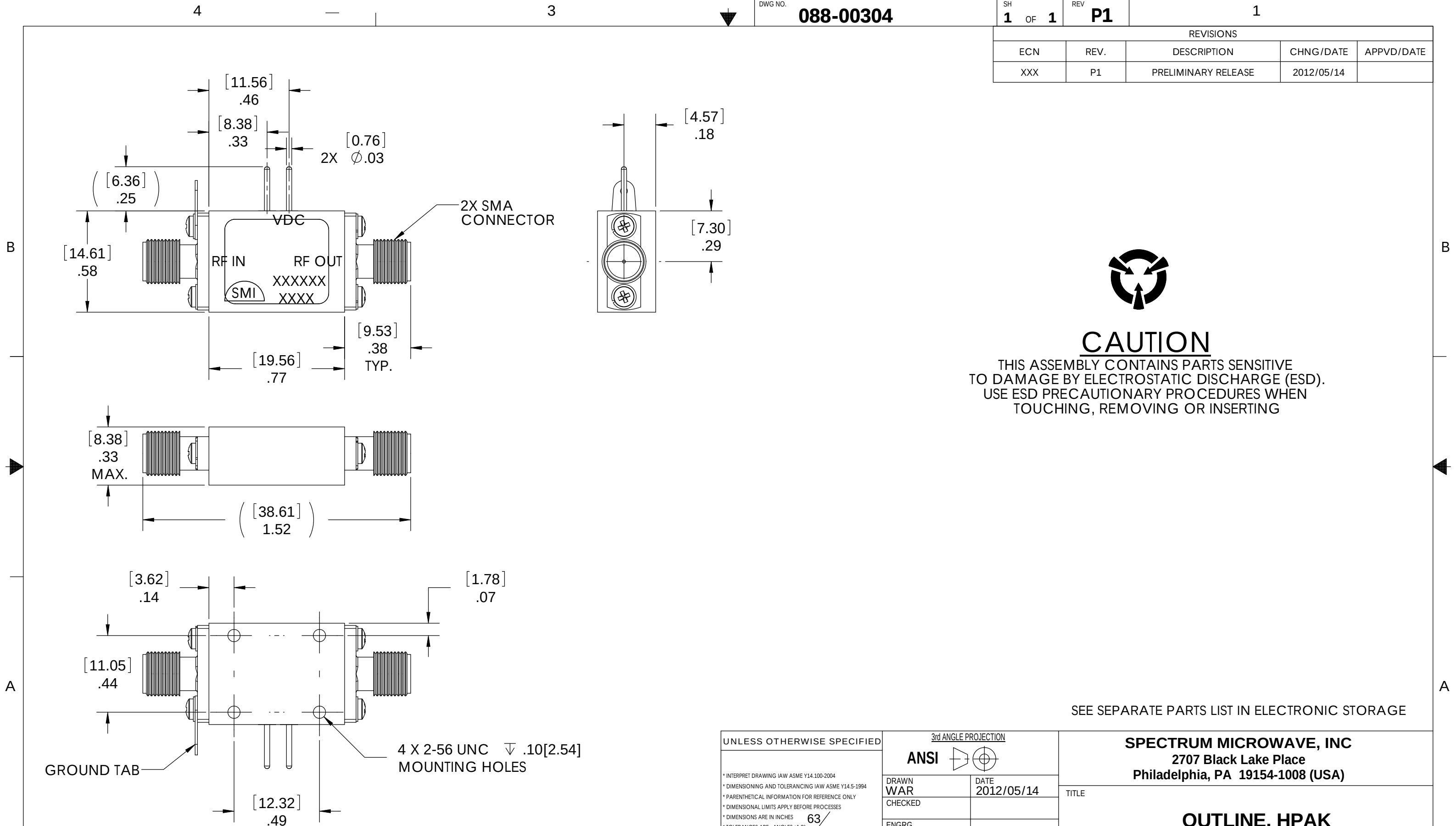
Legend ——— +25 °C - - - +85 °C -55 °C



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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

SPECTRUM MICROWAVE, INC
2707 Black Lake Place
Philadelphia, PA 19154-1008 (USA)

	TITLE
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OUTLINE, HPAK

SIZE	B
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CAGE CODE	60979
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DWG NO.

088-00304

REV
P1

SCALE:

1.5:1

SHEET

1 OF **1**

COMPUTER ASSISTED DRAWING
GENERATED USING SOLIDWORKS 2007

FORM NO. 1054 SIZE B1

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3rd ANGLE PROJECTION



- * INTERPRET DRAWING IAW ASME Y14.100-2004
- * DIMENSIONING AND TOLERANCING IAW ASME Y14.5-1994
- * PARENTHETICAL INFORMATION FOR REFERENCE ONLY
- * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- * DIMENSIONS ARE IN INCHES
- * TOLERANCES ARE: ANGLES $\pm 0.1^\circ$
- * SURFACE FINISH
- * REMOVE ALL BURRS AND SHARP EDGES .010 RAD MAX.
- * CONCENTRICITY MACHINED DIA: .002 FIM
- * MACHINED TOL MISMATCH: .002 MAX

DRAWN
WAR
CHECKED

DATE	2012/05/14
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ENGRG
H PHAM

2012/05/14

QA

DO NOT SCALE DRAWING