

RF AMPLIFIER

MODEL BXMP1027

Available as: BXMP1027, SMA Connectorized Housing

Features

- Medium Gain: 10.5 dB Typical
- High Output Power: 4 Watts Typical
- High Third Order Intercept: +61 dBm Typical
- High Second Order Intercept: +95 dBm 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	50 - 500 MHz	50 - 500 MHz
Gain (dB)	10.5	10.0 Min.
Power @ 1 dB Comp. (dBm)	+37.0	+33.5 Min.
Reverse Isolation (dB)	-17.0	---
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise figure (dB)	4.0	5.5 Max.
Power Vdc	+15	+15
m A	2200	2500 Max.

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.....+100 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+95 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+61 dBm (Typ.)

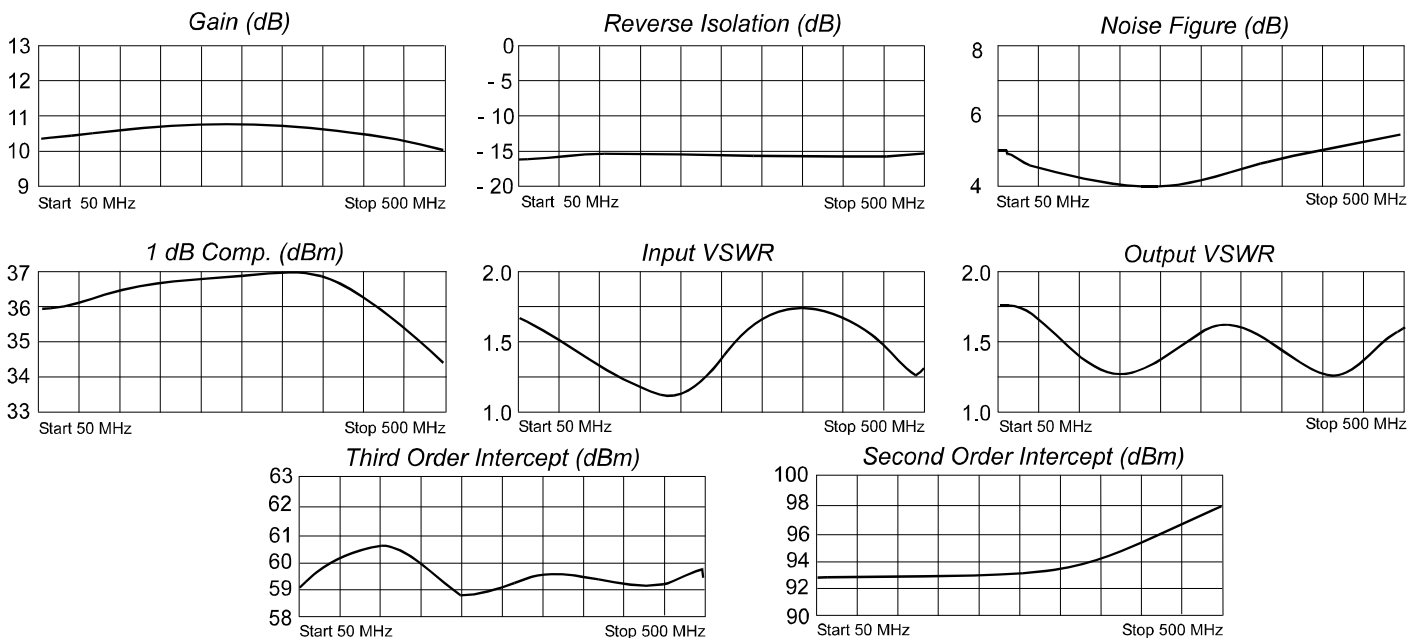
Maximum Ratings

Ambient Operating Temperature -45°C to + 100 °C
 Storage Temperature -50°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 17 Volts
 Continuous RF Input Power + 24 dBm
 Short Term RF Input Power . 400 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 μsec Max.)

Revision 11/18/2014

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

Typical Performance Data



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



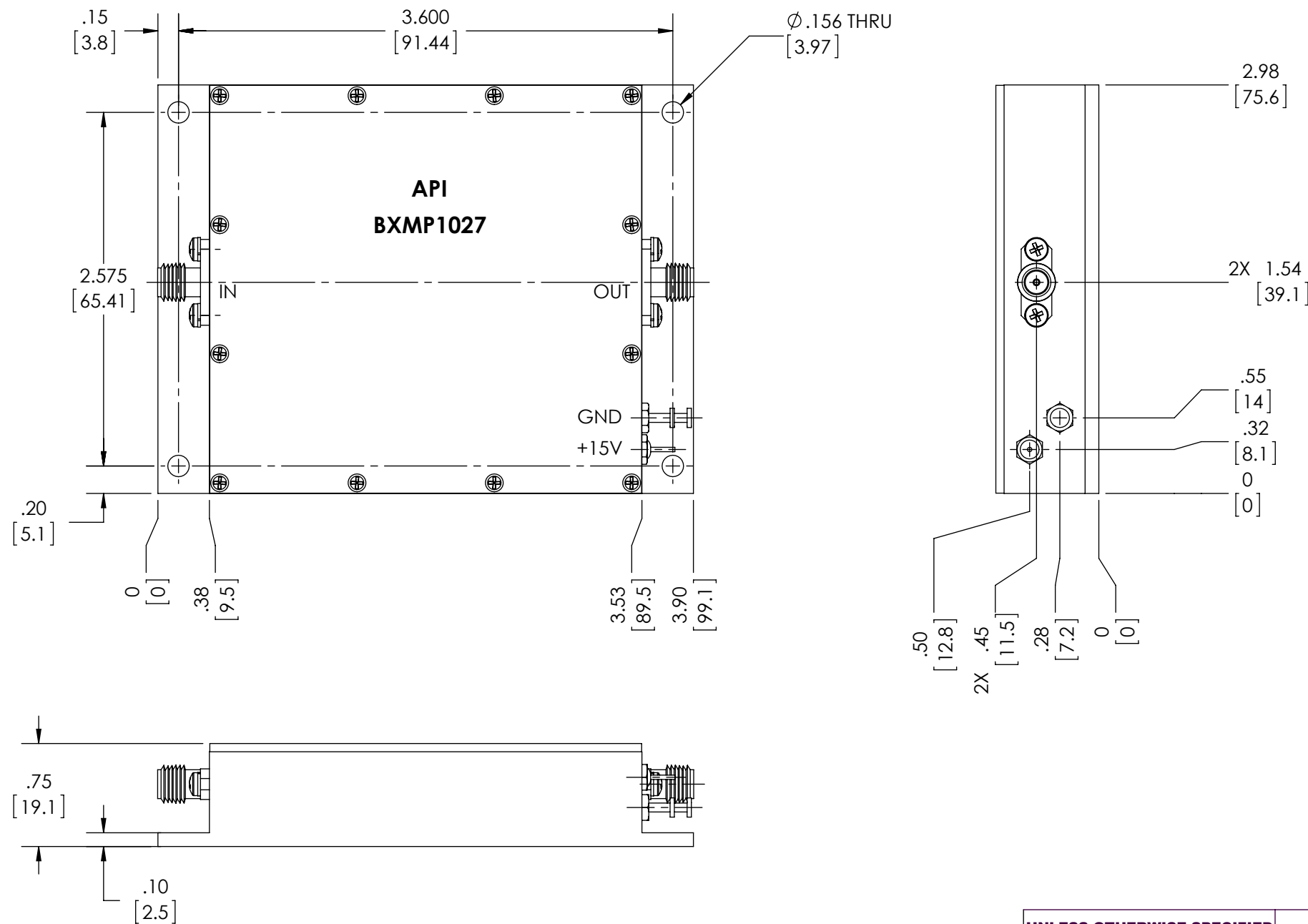
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NOTES:

- 1. MATERIAL: ALUMINUM
- 2. FINISH: ELECTROLESS NICKEL

REVISIONS				
ECN	REV.	DESCRIPTION	CHNG/DATE	APPVD/DATE
1503	-	ENGINEERING RELEASE	2014/11/18	--



CAUTION

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

ADD -U AFTER DRAWING NUMBER TO FORM COMPLETE PART NUMBER FOR UNPLATED PART

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<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> * 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 $\pm 1.0^\circ$ 2 PLACE DECIMAL $\pm .02$ * SURFACE FINISH 63 3 PLACE DECIMAL $\pm .005$ * REMOVE ALL BURRS AND SHARP EDGES .010 RAD MAX. * CONCENTRICITY MACHINED DIA: .002 FIM * MACHINED TOOL MISMATCH: .002 MAX. <p>DO NOT SCALE DRAWING</p>	3rd ANGLE PROJECTION		<p>PHILADELPHIA OPERATIONS 2707 BLACK LAKE PLACE, PHILADELPHIA PA. 19154 (USA)</p>		
	ANSI				DRAWN WAR DATE 2014/11/18
	CHECKED		ENGRG HP DATE 2014/11/18	TITLE OUTLINE, BXMP1027	
	MFG		QA		
	APPROVED		SIZE B CAGE CODE 60979 DWG NO. 088-00432 REV -		
		SCALE: 1:1	SHEET 1 OF 1		