RF AMPLIFIER
MODEL *BXMP1036*

Available as: BXMP1036, SMA Connectorized Housing

Features

- High Gain: 30 dB Typical
- Low Noise Figure: 2.0 dB Typical
- Operating Temp. - 40 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -40 ºC to +85 ºC
Frequency	500 - 3000 MHz	500 - 3000 MHz
Gain (dB)	30	28.5 Min.
Power @ 1 dB Comp. (dBm)	25	24 Min.
Reverse Isolation (dB)	-37	-33 Max.
VSWR In Out	1.75:1 1.75:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	2.0	3.0 Max.
Power Vdc mA	+15 280	+15 300 Max.

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

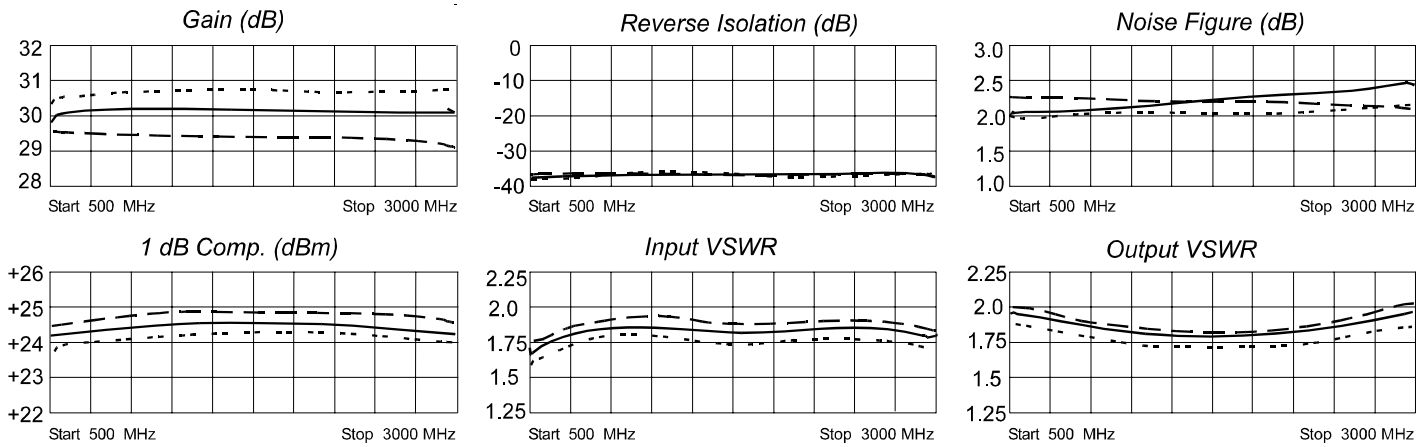
Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point .....+60 dBm (Typ.)
Second Order Two Tone Intercept Point .....+55 dBm (Typ.)
Third Order Two Tone Intercept Point .....+40 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature .....-55ºC to +100 ºC
Storage Temperature .....-62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +18 Volts
Continuous RF Input Power ..... +13 dBm
Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— *+25 ºC* – – – *+85 ºC* - - - - - - *-40 ºC*

Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com *Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001*

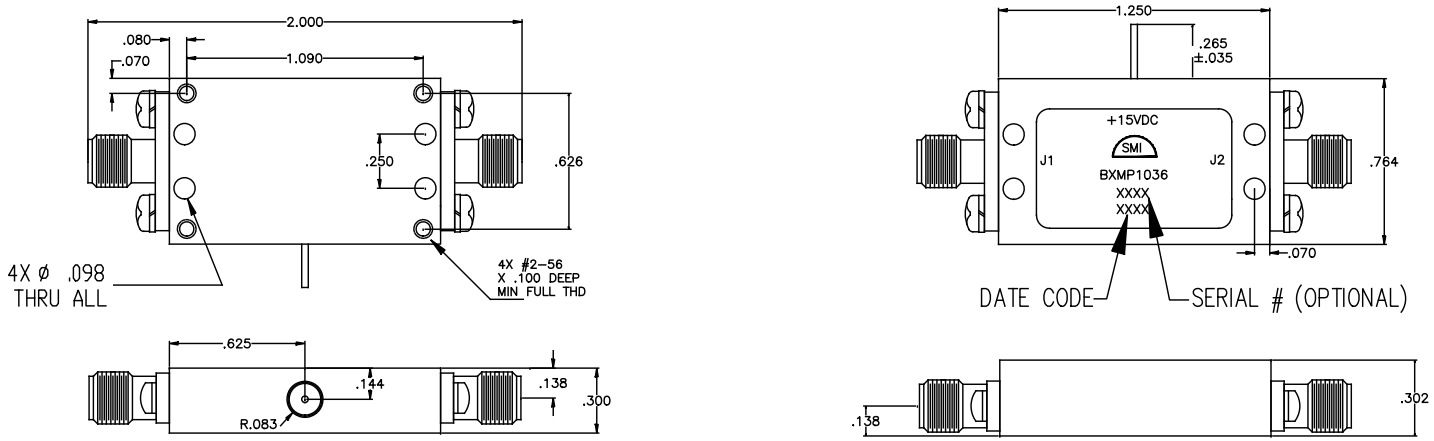
Rev. 11/16/07

DWG NO.	SH	REV
088-00256	1 OF 1	–

REVISIONS				
ECN	REV.	DESCRIPTION	CHNG/DATE	APPVD/DATE
ECN00407	–	ENGINEERING RELEASE	2011/11/17	2011/11/17 KHT

NOTES:

1. MATERIAL: 6061-T6-T6
2. FINISH: ELECTROLESS NICKLE PLATE



CAUTION

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

SPECTRUM MICROWAVE PROPRIETARY INFORMATION

THIS DOCUMENT IS THE SOLE PROPERTY OF SPECTRUM MICROWAVE, INC. THE RELEASE OF DATA CONTAINED IN THIS DOCUMENT AND THE REPRODUCTION OF THIS DOCUMENT, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF SPECTRUM MICROWAVE, INC ARE PROHIBITED.

UNLESS OTHERWISE SPECIFIED

* 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 ±1.0° 2 PLACE DECIMAL ±.02 3 PLACE DECIMAL ±.005
* SURFACE FINISH 63
* REMOVE ALL BURRS AND SHARP EDGES .010 RAD MAX.
* CONCENTRICITY MACHINED DIA: .002 FIM
* MACHINED TOOL MISMATCH: .002 MAX.

DO NOT SCALE DRAWING

3rd ANGLE PROJECTION

ANSI

DRAWN	HP	DATE 2011/11/17
CHECKED		
ENGRG	PHAMLH	2011/11/17
MFG		
QA		
APPROVED	X	X

SPECTRUM MICROWAVE, INC
2707 BLACK LAKE PLACE
PHILADELPHIA PA, 19154 (USA)

TITLE

OUTLINE DRAWING
BXMP1036

SIZE	CAGE CODE	DWG NO.	REV
B	60979	088-00256	–

SCALE: 10:1 PDM/PHILLY/RELEASED/088_OUTLINE SHEET 1 OF 1