RF AMPLIFIER
MODEL BXMP1027

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 ºC to +85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º 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 .............. -45ºC to + 100 ºC
Storage Temperature .................................. -50ºC to + 125 ºC
Case Temperature ..................................... + 125 ºC
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

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL Ta= 25 ºC</th>
<th>MIN/MAX Ta = -55 ºC to +85 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50 - 500 MHz</td>
<td>50 - 500 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>10.5</td>
<td>10.0 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+37.0</td>
<td>+33.5 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-17.0</td>
<td>---</td>
</tr>
<tr>
<td>VSWR In</td>
<td>1.5:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>1.5:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>Noise figure (dB)</td>
<td>4.0</td>
<td>5.5 Max.</td>
</tr>
<tr>
<td>Power Vdc m A</td>
<td>+15</td>
<td>+15</td>
</tr>
</tbody>
</table>

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

Available as: BXMP1027, SMA Connectorized Housing

Typical Performance Data

Legend ——— - 25 ºC — — — + 85 ºC — — — — —— -55 ºC
CAUTION

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

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

NOTES:
[2.5] 0.10
[9.1] 3.90
[89.5] 3.59
[2.5] 0.15
[3.8] 0.75
[19.1] 0.20
[5.1] 2.575
[65.41] 2.575

API
BXMP1027

OUTLINE, BXMP1027

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NO SCALE DRAWING

DRAWING
DATE
CHECKED
ENGINEER
DATE
APPROVED
SIZE
CASE CODE
DRAWN
COMPUTER ASSISTED DRAWING
GENERATED USING SOLIDWORKS 2012

API TECHNOLOGIES CORP.
2707 BLACK LAKE PLACE,
PHILADELPHIA, PA. 19154 (USA)

088-00432
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