RF AMPLIFIER
MODEL  BXMP1033

Medium Power Amplifier
Available as:  WNMP1033, 10 Pin .625" Sq. Gullwing Surface-Mount (SG4)
BXMP1033, SMA Connectorized Housing

Features
- High Output Power: +30.5 dBm Typical
- High Third Order Intercept: +47 dBm Typical
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL 1 - 50 MHz</th>
<th>MIN/MAX 1 - 50 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>35</td>
<td>34 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp.</td>
<td>+30.5</td>
<td>+30 Min.</td>
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<tr>
<td>Reverse Isolation</td>
<td>-45</td>
<td>-40 Max.</td>
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<tr>
<td>VSWR In</td>
<td>1.8:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>1.8:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>Noise figure (dB)</td>
<td>5.5</td>
<td>6.0 Max.</td>
</tr>
<tr>
<td>Power Vdc mA</td>
<td>+15</td>
<td>+15</td>
</tr>
<tr>
<td>mA Max.</td>
<td>435</td>
<td>500 Max.</td>
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</tbody>
</table>

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

Typical Intermodulation Performance at 25 ºC
Second Order Harmonic Intercept Point …… +60 dBm (Typ.)
Second Order Two Tone Intercept Point …… +54 dBm (Typ.)
Third Order Two Tone Intercept Point ……… +47 dBm (Typ.)

Absolute Maximum (No Damage) 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 ………………. +20 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 ——— +85ºC ——— -55 ºC