RF AMPLIFIER
model WNMP1043

Features
- High Output Power: +30 dBm Typical
- High Gain: 24 dB Typical
- Environmental Screening Available
- No External Circuitry Needed

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ta = 25 °C</td>
<td>Ta = -40 °C to +85 °C</td>
</tr>
<tr>
<td>Frequency (MHz)</td>
<td>500 - 2000 MHz</td>
<td>500 - 2000 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>24</td>
<td>23 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+30</td>
<td>+29 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-40</td>
<td></td>
</tr>
<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>4.5</td>
<td>5.5 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15</td>
</tr>
<tr>
<td>mA</td>
<td>370</td>
<td>400 Max.</td>
</tr>
</tbody>
</table>

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

Revision 6/17/2015

Typical Intermodulation Performance at 25 °C
- Second Order Harmonic Intercept Point ..... +65 dBm (Typ.)
- Second Order Two Tone Intercept Point ...... +60 dBm (Typ.)
- Third Order Two Tone Intercept Point ........ +43 dBm (Typ.)

Absolute Maximum (No Damage) Ratings
- Ambient Operating Temperature .............. -55°C to +100°C
- Storage Temperature ......................... -62°C to +125°C
- Case Temperature .............................. +95°C
- DC Voltage ................................... +18 Volts
- Continuous RF Input Power (CW) .............. +20 dBm
- Maximum Peak Power .......................... 0.5 Watt (3 μsec Max.)

Typical Performance Data

Legend ——— +25 °C ——— - ——— +85 °C ——— - ——— - ——— -40 °C
1. MATERIAL: HOUSING Cu/Ni, 70/Ni ELECTRONIC GRADE

MOUNTING SURFACE

Φ0.018 ±0.002 ±0.001

RF INPUT

SERIAL NUMBER/DATE CODE

RF OUTPUT

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

OUTLINE, BXMP1043

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DO NOT SCALE DRAWING

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