RF AMPLIFIER
MODEL QBS-234

Features
- High Output Power: +42 dBm Typical
- High Third Order Intercept: +60 dBm Typical
- High Second Order Intercept: +65 dBm Typical
- Environmental Screening Available

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>1930 - 1990 MHz</td>
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</tr>
<tr>
<td>Gain (dB)</td>
<td>40</td>
<td>38 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+42</td>
<td>+40 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>35</td>
<td>30 Min.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>2.0:1</td>
<td>2.5:1 Max.</td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>6.0</td>
<td>6.5 Max.</td>
</tr>
<tr>
<td>Power Vdc m A</td>
<td>+15 +15</td>
<td>+15 6000 Max.</td>
</tr>
</tbody>
</table>

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

Typical Performance Data

Legend ——— +25 ºC

Typical Intermodulation Performance at 25 ºC
- Second Order Harmonic Intercept Point........+65 dBm (Typ.)
- Second Order Two Tone Intercept Point........+60 dBm (Typ.)
- Third Order Two Tone Intercept Point.........+52 dBm (Typ.)

Maximum Ratings
- Ambient Operating Temperature ............... -55ºC to +125 ºC
- Storage Temperature ............................. -62ºC to +150 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.)