Spectrum Microwave can also customize this amplifier to your unique requirements in a timely manner. Customization and delivering prototypes with demanding specifications is what separates Spectrum Microwave from other power amplifier vendors.

**RF AMPLIFIER**

**MODEL** QBS-258

**Features**
- High Power: +41.5 dBm Typical
- High Gain: 32 dB Typical
- Efficient Class AB Design
- Environmental Screening Available

**Specifications**

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1920-1990 MHz</td>
<td>1920-1990 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>32</td>
<td>30.5 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+41</td>
<td>+39.5 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>46</td>
<td>41 Min.</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>Power Vdc m A</td>
<td>+28</td>
<td>+28</td>
</tr>
<tr>
<td></td>
<td>1500</td>
<td>1600 Max.</td>
</tr>
</tbody>
</table>

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

**Maximum Ratings**

- Ambient Operating Temperature ..........-55°C to +125 ºC
- Storage Temperature ......................-62°C to +150 ºC
- Case Temperature .............................+125 ºC
- DC Voltage .............................................+30 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**

- **Gain (dB)**
  - Start 1920 MHz
  - Stop 1990 MHz

- **Reverse Isolation (dB)**
  - Start 1920 MHz
  - Stop 1990 MHz

- **1 dB Comp. (dBm)**
  - Start 1920 MHz
  - Stop 1990 MHz

- **Input VSWR**
  - Start 1920 MHz
  - Stop 1990 MHz

- **Output VSWR**
  - Start 1920 MHz
  - Stop 1990 MHz

**Legend** — +25 ºC