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.

### Features

- High Power: +41 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></td>
<td>Ta= 25 ºC</td>
<td>Ta = -55 ºC to +85 ºC</td>
</tr>
<tr>
<td>Frequency</td>
<td>2400- 2450 MHz</td>
<td>2400- 2450 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>32</td>
<td>30.5 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB</td>
<td>+41</td>
<td>+39.5 Min.</td>
</tr>
<tr>
<td>Comp. (dBm)</td>
<td></td>
<td></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</td>
<td>+28</td>
<td>+28</td>
</tr>
<tr>
<td>mA</td>
<td>1400</td>
<td>1500 Max.</td>
</tr>
</tbody>
</table>

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

### Maximum Ratings

- Ambient Operating Temperature: -55ºC to +125 ºC
- Storage Temperature: -62ºC 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 2400 MHz
  - Stop 2450 MHz
  - 30 to 34
- **Reverse Isolation (dB)**
  - Start 2400 MHz
  - Stop 2450 MHz
  - 0 to 60
- **1 dB Comp. (dBm)**
  - Start 2400 MHz
  - Stop 2450 MHz
  - +39 to +43
- **Input VSWR**
  - Start 2400 MHz
  - Stop 2450 MHz
  - 1 to 3.0
- **Output VSWR**
  - Start 2400 MHz
  - Stop 2450 MHz
  - 1 to 3.0

Legend: +25 ºC