**RF AMPLIFIER**

**MODEL** CZ8111

**Features**
- Medium Gain: 15 dB Typical
- Low Noise Figure: 2.8 dB Typical
- Operating Temp. 0 ºC to +70 ºC
- 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 = 0 ºC to +70 ºC</td>
</tr>
<tr>
<td>Frequency</td>
<td>kHz - 400 MHz</td>
<td>kHz - 400 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>15</td>
<td>13 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>-2</td>
<td>-3 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-17</td>
<td>-16 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>&lt;1.6:1</td>
<td>3.0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>&lt;1.2:1</td>
<td>3.0:1 Max.</td>
</tr>
<tr>
<td>Noise figure (dB)</td>
<td>2.8</td>
<td>3.5 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+1.8</td>
<td>+1.8</td>
</tr>
<tr>
<td>mA</td>
<td>10</td>
<td>15 Max.</td>
</tr>
</tbody>
</table>

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

**Typical Performance Data**

- **Gain (dB)**
- **Reverse Isolation (dB)**
- **Noise Figure (dB)**
- **1 dB Comp. (dBm)**
- **Input VSWR**
- **Output VSWR**

**Legend** +25 ºC — — — +70 ºC - - - - - 0 ºC

**Typical Intermodulation Performance at 25 ºC**
- Second Order Harmonic Intercept Point: +16 dBm (Typ.)
- Second Order Two Tone Intercept Point: +11 dBm (Typ.)
- Third Order Two Tone Intercept Point: +12 dBm (Typ.)

**Maximum Ratings**
- Ambient Operating Temperature: -55ºC to +100 ºC
- Storage Temperature: -62ºC to +125 ºC
- Case Temperature: +125 ºC
- 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.)

Available as: CZ8111, 3 Pin TO-39 (T10)