## Performance Specifications

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oscillation Frequency Range</td>
<td>2250</td>
<td>2790</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-98</td>
<td></td>
<td>dBc/Hz</td>
<td></td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-20</td>
<td>-10</td>
<td>dBc</td>
<td></td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>1.5</td>
<td>13</td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Tuning Sensitivity (avg.)</td>
<td>60</td>
<td></td>
<td>MHz/V</td>
<td></td>
</tr>
<tr>
<td>Power Output</td>
<td>0</td>
<td>3</td>
<td>6</td>
<td>dBm</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>50</td>
<td></td>
<td>Ω</td>
<td></td>
</tr>
<tr>
<td>Input Capacitance</td>
<td>50</td>
<td></td>
<td>pF</td>
<td></td>
</tr>
<tr>
<td>Pulling (12 dB Return Loss, Any Phase)</td>
<td>14</td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
<td></td>
<td>85</td>
<td>°C</td>
</tr>
<tr>
<td>Package Style</td>
<td>MINI-16-L</td>
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</tbody>
</table>

## Power Supply Requirements

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage (Vcc, nom.)</td>
<td>8</td>
<td></td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Supply Current (Icc)</td>
<td>28</td>
<td>32</td>
<td>mA</td>
<td></td>
</tr>
</tbody>
</table>

## Additional Notes

- Mounting and Grounding
- Output Loading
- Manual Soldering

Voltage-Controlled Oscillator
Surface Mount Module

Applications

- Digital Radios
- Satellite Modems

Application Notes

- AN-101: Mounting and Grounding
- AN-102: Output Loading
- AN-107: Manual Soldering

Digital Radios
Satellite Modems

LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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Voltage-Controlled Oscillator
Surface Mount Module

Tuning Curve, typ.

![Tuning Curve Graph](image)

- 85°C
- 25°C
- -40°C

Power Curve, typ.

![Power Curve Graph](image)

- 85°C
- 25°C
- -40°C

Footprint

![Footprint Diagram](image)

- Recommended footprint
- Several holes of 0.015 on GND plane are recommended for good grounding.
- 0.030 MIN. CUTBACK FROM LIVE PADS

Physical Dimensions

![Physical Dimensions](image)

- Note: All dimensions are in inches
- TOL: XXX +/- 0.010

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