Voltage-Controlled Oscillator
Surface Mount Module

Applications
- Digital Radio Equipment
- Fixed Wireless Access
- Satellite Communication Systems

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

### 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>2540</td>
<td>2740</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-102</td>
<td></td>
<td></td>
<td>dBc/Hz</td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-15</td>
<td>-10</td>
<td>dBc</td>
<td></td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>1.5</td>
<td>10</td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Tuning Sensitivity (avg.)</td>
<td>40</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>Pushing</td>
<td>3</td>
<td></td>
<td>MHz/V</td>
<td></td>
</tr>
<tr>
<td>Pulling (14 dB Return Loss, Any Phase)</td>
<td>2</td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
<td>85</td>
<td>°C</td>
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</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>5</td>
<td></td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Supply Current (Icc)</td>
<td>21</td>
<td>26</td>
<td>mA</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Notes

Digital Radio Equipment
Fixed Wireless Access
Satellite Communication Systems

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Surface Mount Module

Additional Notes
- AN-101: Mounting and Grounding
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Applications

Power Supply Requirements

Supply Voltage (Vcc, nom.)
Supply Current (Icc)
Voltage-Controlled Oscillator
Surface Mount Module

**Tuning Curve, typ.**

- **FREQUENCY (MHz)**
  - 85°C
  - 25°C
  - -40°C

- **TUNING VOLTAGE (Vdc)**

**Power Curve, typ.**

- **POWER OUTPUT (dBm)**
  - 85°C
  - 25°C
  - -40°C

- **FREQUENCY (MHz)**

**Footprint**

- **Recommended Footprint**
  - Several holes of 0.015 on GND. plane are recommended for good grounding.

- **0.020 Min. Cutback from Live Pads**

**Physical Dimensions**

- **Z-COMM XXXXXXXX-LF**
  - W/O #
  - D/C

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

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