Voltage-Controlled Oscillator
Surface Mount Module

Applications

- WiMAX
- Earthstations

Application Notes

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

### Performance Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oscillation Frequency Range</td>
<td>2154</td>
<td>2332</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-96</td>
<td></td>
<td>dBc/Hz</td>
<td></td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-17</td>
<td>-15</td>
<td>dBc</td>
<td></td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>0.5</td>
<td>4.5</td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Tuning Sensitivity (avg.)</td>
<td>69</td>
<td></td>
<td>MHz/V</td>
<td></td>
</tr>
<tr>
<td>Power Output</td>
<td>-2</td>
<td>1.5</td>
<td>5</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>
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<tr>
<td>Pushing</td>
<td>4</td>
<td></td>
<td>MHZ/V</td>
<td></td>
</tr>
<tr>
<td>Pulling (14 dB Return Loss, Any Phase)</td>
<td>1</td>
<td></td>
<td>MHz</td>
<td></td>
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<tr>
<td>Operating Temperature Range</td>
<td>-25</td>
<td>70</td>
<td>°C</td>
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<tr>
<td>Package Style</td>
<td>MINI-14S</td>
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</table>

### Power Supply Requirements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Supply Voltage (Vcc, nom.)</td>
<td>5</td>
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<td>Vdc</td>
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<tr>
<td>Supply Current (Icc)</td>
<td>15</td>
<td>18</td>
<td>mA</td>
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</tbody>
</table>

Additional Notes

LFSuffix = RoHS Compliant. All specifications are subject to change without notice.
Tuning Curve, typ.

Power Curve, typ.

Footprint

Physical Dimensions

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