Voltage-Controlled Oscillator
Surface Mount Module

Applications
Satellite Communications
Point to Point Radio

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>3339</td>
<td>3349</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-115</td>
<td></td>
<td>dBc/Hz</td>
<td></td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-16</td>
<td>-13</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>4</td>
<td></td>
<td>MHz/V</td>
<td></td>
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<tr>
<td>Power Output</td>
<td>0</td>
<td>2.5</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>
</tr>
<tr>
<td>Pushing (14 dB Return Loss, Any Phase)</td>
<td>1</td>
<td></td>
<td>MHz</td>
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<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
<td>85</td>
<td>°C</td>
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<tr>
<td>Package Style</td>
<td>MINI-16-SM</td>
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Power Supply Requirements

<table>
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<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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<td>Supply Current (Icc)</td>
<td>20</td>
<td>25</td>
<td>mA</td>
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Additional Notes
Voltage-Controlled Oscillator
Surface Mount Module

**Power Curve, typ.**

- **FREQUENCY (MHz)**
  - 3325
  - 3335
  - 3345
  - 3355
  - 3365
  - 3375

- **TUNING VOLTAGE (Vdc)**
  - 0
  - 0.5
  - 1
  - 1.5
  - 2
  - 2.5
  - 3
  - 3.5
  - 4
  - 4.5

- **POWER OUTPUT (dBm)**
  - 0.030 MIN. CUTBACK FROM LIVE PADS

- **RECOMMENDED FOOTPRINT**
  - SEVERAL HOLES OF 0.015 ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.
  - 0.030 MIN. CUTBACK FROM LIVE PADS

**Footprint**

**Physical Dimensions**

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

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