Voltage-Controlled Oscillator
Surface Mount Module

Applications
- Digital Radios
- Earthstations
- Satellite Modems

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>
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</thead>
<tbody>
<tr>
<td>Oscillation Frequency Range</td>
<td>2000</td>
<td>2500</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-96</td>
<td></td>
<td></td>
<td>dBc/Hz</td>
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<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-14</td>
<td>-10</td>
<td></td>
<td>dBc</td>
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<tr>
<td>Tuning Voltage</td>
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<td>10</td>
<td></td>
<td>Vdc</td>
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<tr>
<td>Tuning Sensitivity (avg.)</td>
<td>107</td>
<td></td>
<td></td>
<td>MHz/V</td>
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<tr>
<td>Power Output</td>
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<td>4.5</td>
<td>8</td>
<td>dBm</td>
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<tr>
<td>Load Impedance</td>
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<td></td>
<td>Ω</td>
</tr>
<tr>
<td>Input Capacitance</td>
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<td></td>
<td></td>
<td>pF</td>
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<tr>
<td>Pushing</td>
<td>2</td>
<td></td>
<td></td>
<td>MHz/V</td>
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<tr>
<td>Pulling (12 dB Return Loss, Any Phase)</td>
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<td></td>
<td>MHz</td>
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<tr>
<td>Operating Temperature Range</td>
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<td>°C</td>
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<td>Package Style</td>
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### Power Supply Requirements

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
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</thead>
<tbody>
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<td>Supply Voltage (Vcc, nom.)</td>
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<td></td>
<td>Vdc</td>
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<tr>
<td>Supply Current (Icc)</td>
<td>13</td>
<td>16</td>
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<td>mA</td>
</tr>
</tbody>
</table>

### Additional Notes

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- Surface Mount Module
- Applications
  - Digital Radios
  - Earthstations
  - Satellite Modems

- Application Notes
  - AN-101: Mounting and Grounding
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- Performance Specifications
  - Oscillation Frequency Range
  - Phase Noise @ 10 kHz offset (1 Hz BW)
  - Harmonic Suppression (2nd)
  - Tuning Voltage
  - Tuning Sensitivity (avg.)
  - Power Output
  - Load Impedance
  - Input Capacitance
  - Pushing
  - Pulling (12 dB Return Loss, Any Phase)
  - Operating Temperature Range
  - Package Style

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

Tuning Curve, typ.

Power Curve, typ.

Footprint

Physical Dimensions

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

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