Voltage-Controlled Oscillator
Surface Mount Module

### Applications
- Test Equipment
- Satcom
- Microwave Communications

### 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>3625</td>
<td>3625</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-115</td>
<td></td>
<td></td>
<td>dBc/Hz</td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-35</td>
<td>-25</td>
<td></td>
<td>dBc</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>0.5</td>
<td></td>
<td>4.5</td>
<td>Vdc</td>
</tr>
<tr>
<td>Tuning Sensitivity (avg.)</td>
<td>6</td>
<td></td>
<td></td>
<td>MHz/V</td>
</tr>
<tr>
<td>Power Output</td>
<td>4</td>
<td>7</td>
<td>10</td>
<td>dBm</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ω</td>
</tr>
<tr>
<td>Input Capacitance</td>
<td>50</td>
<td></td>
<td>pF</td>
<td></td>
</tr>
<tr>
<td>Pushing</td>
<td>1</td>
<td></td>
<td></td>
<td>MHz/V</td>
</tr>
<tr>
<td>Pulling (12 dB Return Loss, Any Phase)</td>
<td>-40</td>
<td></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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</tbody>
</table>

### Additional Notes

- Power Supply Requirements
  - Supply Voltage (Vcc, nom.)
    - Min: 8 Vdc
  - Supply Current (Icc)
    - Min: 30 mA
    - Max: 35 mA
**Voltage-Controlled Oscillator**  
**Surface Mount Module**  

**CRO3625E-LF**  
Rev A1

**Tuning Curve, typ.**

![Tuning Curve Diagram](image)

**Power Curve, typ.**

![Power Curve Diagram](image)

**Footprint**

![Footprint Diagram](image)

**Physical Dimensions**

![Physical Dimensions Diagram](image)

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