**Voltage-Controlled Oscillator**  
**Surface Mount Module**

### Applications
- Base Station
- Fixed Wireless

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

### Performance Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oscillation Frequency Range</td>
<td>1805</td>
<td>1865</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-99</td>
<td></td>
<td>dBc/Hz</td>
<td></td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-10</td>
<td></td>
<td>dBc</td>
<td></td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>2</td>
<td>4.4</td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Tuning Sensitivity (avg.)</td>
<td>50</td>
<td></td>
<td>MHz/V</td>
<td></td>
</tr>
<tr>
<td>Power Output</td>
<td>-2</td>
<td>0</td>
<td>2</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>6</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>

### Package Style
- MINI-14S-L

### Power Supply Requirements

<table>
<thead>
<tr>
<th>Requirement</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>
<td></td>
<td>Vdc</td>
<td></td>
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<tr>
<td>Supply Current (Icc)</td>
<td>18</td>
<td>22</td>
<td>mA</td>
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</tbody>
</table>

### Additional Notes
Voltage-Controlled Oscillator
Surface Mount Module

**CLV1835A-LF**

**Rev A1**

### Tuning Curve, typ.

**TUNING VOLTAGE (Vdc)**

**FREQUENCY (MHz)**

- **85°C**
- **25°C**
- **-40°C**

### Power Curve, typ.

**POWER OUTPUT (dBm)**

**FREQUENCY (MHz)**

- **85°C**
- **25°C**
- **-40°C**

### Footprint

- **0.010 MIN. CUT BACK FROM LEAD PADS**
- **0.009 2Y**
- **0.009 2Y**
- **0.009 2Y**
- **0.009 2Y**
- **0.009 2Y**
- **0.015 2L**
- **0.115 2L**
- **0.145 2X**

### 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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