### 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>1400</td>
<td>1624</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-102</td>
<td></td>
<td>dBc/Hz</td>
<td></td>
</tr>
<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-24</td>
<td>-20</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>70</td>
<td></td>
<td>MHz/V</td>
<td></td>
</tr>
<tr>
<td>Power Output</td>
<td>-2.5</td>
<td>0</td>
<td>2.5</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</td>
<td>2</td>
<td></td>
<td>MHz/V</td>
<td></td>
</tr>
<tr>
<td>Pulling (14 dB Return Loss, Any Phase)</td>
<td>3</td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
<td></td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Package Style</td>
<td>MINI-14S-L</td>
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</tbody>
</table>

### Power Supply Requirements

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage (Vcc, nom.)</td>
<td>5.0</td>
<td></td>
<td>Vdc</td>
<td></td>
</tr>
<tr>
<td>Supply Current (Icc)</td>
<td>18</td>
<td>19</td>
<td>mA</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Notes

- **Applications**
  - Personal Communication Systems
  - Earthstations
  - Portable Radios

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

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**Voltage-Controlled Oscillator**

**Surface Mount Module**

**Applications**

- Personal Communication Systems
- Earthstations
- Portable Radios

**Application Notes**

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- AN-102: Output Loading
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---

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

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Voltage-Controlled Oscillator
Surface Mount Module

**Tuning Curve, typ.**

![Tuning Curve Diagram]

**Power Curve, typ.**

![Power Curve Diagram]

**Footprint**

![Footprint Diagram]

**Physical Dimensions**

![Physical Dimensions Diagram]

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**Legend:**
- Red square: 85°C
- Black square: 25°C
- Blue circle: -40°C

**Specifications:**
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- Page 2 of 2

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**V602ME40-LF**

Rev A1

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**NOTE:**
- All dimensions are in inches.
- TOL: XXX +/- 0.010

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**FRM-S-002 B**