Voltage-Controlled Oscillator
Surface Mount Module

Applications
Radio Equipment
Satellite Communications

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

Performance Specifications

<table>
<thead>
<tr>
<th>Spec</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oscillation Frequency Range</td>
<td>1550</td>
<td></td>
<td>1795</td>
<td>MHz</td>
</tr>
<tr>
<td>Phase Noise @ 10 kHz offset (1 Hz BW)</td>
<td>-94</td>
<td></td>
<td></td>
<td>dBc/Hz</td>
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<tr>
<td>Harmonic Suppression (2nd)</td>
<td>-12</td>
<td>-9</td>
<td></td>
<td>dBc</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>0.75</td>
<td></td>
<td>4.25</td>
<td>Vdc</td>
</tr>
<tr>
<td>Tuning Sensitivity (avg.)</td>
<td></td>
<td>100</td>
<td></td>
<td>MHz/V</td>
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<tr>
<td>Power Output</td>
<td>6</td>
<td>9</td>
<td>12</td>
<td>dBm</td>
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<tr>
<td>Load Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ω</td>
</tr>
<tr>
<td>Input Capacitance</td>
<td></td>
<td>50</td>
<td></td>
<td>pF</td>
</tr>
<tr>
<td>Pushing</td>
<td></td>
<td>17</td>
<td></td>
<td>MHz/V</td>
</tr>
<tr>
<td>Pulling (20. dB Return Loss, Any Phase)</td>
<td></td>
<td>12</td>
<td></td>
<td>MHz</td>
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<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
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<td>85</td>
<td>°C</td>
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<td>Package Style</td>
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<td>SUB-L</td>
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Power Supply Requirements

<table>
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<th>Spec</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>
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<td></td>
<td>Vdc</td>
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<td>Supply Current (Icc)</td>
<td>26</td>
<td>32</td>
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<td>mA</td>
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Additional Notes
PCB PLATING: Gold (Au) over Nickel (Ni)
Plating Thickness
Gold (Au): 4 to 8 μin. (max)
Nickel (Ni): 100 to 150 μin. (max)
Tuning Curve, typ.

Power Curve, typ.

Footprint

Physical Dimensions

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

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