FEATURES:
- Exceptional Phase Noise Performance
- Small Size, Surface Mount
- Lead Free Patented REL-PRO® Technology
- Planar Resonator Construction

SPECIFICATIONS (Rev A 10/22/10)

Frequency 2212 - 2380 MHz
Tuning Voltage See table below.
Bias Voltage +8 VDC @ 24 mA (Max.)
Output Power +4 dBm (Min.)
Tuning Sensitivity 13 - 22 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 23 dB (Typ.)
Frequency Pulling 3 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 0.5 MHz/V (Typ.)
Tuning Port Capacitance 40 pF (Typ.)
Phase Noise @ 10 kHz -110 dBc/Hz (Typ.)
Operating Temperature Range -40 to +85 °C

Guaranteed Tuning Specifications

<table>
<thead>
<tr>
<th>Tuning Voltage (V)</th>
<th>Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>2212 (Max.)</td>
</tr>
<tr>
<td>4.5</td>
<td>2258 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>2290 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>2340 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>2380 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Storage Temp. Range</th>
<th>-55 to +125 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bias Voltage</td>
<td>+8.5 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>+18 V</td>
</tr>
<tr>
<td>DC Voltage Applied to RF Out</td>
<td>±25 V</td>
</tr>
</tbody>
</table>

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO221226-8

OPTIMIZED BANDWIDTH

2212 - 2380 MHz

PERFORMANCE PLOTS
VOLTAGE CONTROLLED OSCILLATOR
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PERFORMANCE PLOTS

Control Voltage (Vdc) vs. Tuning Sensitivity (MHz/V)

Control Voltage (Vdc) vs. 2nd Harmonic Suppression (dB)