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

SPECIFICATIONS (Rev. B 01/02/12)

Frequency: 2050 - 2150 MHz
Tuning Voltage: See table below.
Bias Voltage: +10 VDC @ 40 mA (Max.)
Output Power: +5 dBm (Min.)
Tuning Sensitivity: 19 - 21 MHz/V (Typ.)
Output Impedance: 50 Ohms (Nom.)
Harmonic Suppression: 24 dB (Typ.)
Frequency Pulling: 3 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing: 5 MHz/V (Typ.)
Tuning Port Capacitance: 56 pF (Typ.)
Phase Noise @ 10 kHz: -109 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>2050 (Max.)</td>
</tr>
<tr>
<td>10</td>
<td>2150 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

Storage Temp. Range: -55 to +125 °C
Bias Voltage: +10.5 V
Tuning Voltage: +28 V
DC Voltage Applied to RF Out: ±25 V
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO205215-10

OPTIMIZED BANDWIDTH
2050 - 2150 MHz

PERFORMANCE PLOTS
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO205215-10

OPTIMIZED BANDWIDTH
2050 - 2150 MHz

PERFORMANCE PLOTS

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

-25°C  +85°C  -40°C

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

-25°C  +85°C  -40°C