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

SPECIFICATIONS (Rev. F 01/02/12)

Frequency: 1960 - 2650 MHz

Tuning Voltage: See table below.

Bias Voltage: +10 VDC @ 35 mA (Max.)

Output Power: +2 dBm (Min.)

Tuning Sensitivity: 17 - 50 MHz/V (Typ.)

Output Impedance: 50 Ohms (Nom.)

Harmonic Suppression: 23 dB (Typ.)

Frequency Pulling: 5 MHz (Typ. @ 1.75:1 VSWR)

Frequency Pushing: 1 MHz/V (Typ.)

Tuning Port Capacitance: 53 pF (Typ.)

Phase Noise @ 10 kHz: -106 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>1960 (Max.)</td>
</tr>
<tr>
<td>12</td>
<td>2150 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>2230 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>2430 (Min.)</td>
</tr>
<tr>
<td>24</td>
<td>2650 (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: DCR0196265-10

OPTIMIZED BANDWIDTH
1960 - 2650 MHz

PERFORMANCE PLOTS

[Graph showing performance plots for control voltage over frequency and output power with temperature variations]
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO196265-10

OPTIMIZED BANDWIDTH
1960 - 2650 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