VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO200280-10
OPTIMIZED BANDWIDTH
2000 - 2800 MHz

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

SPECIFICATIONS
Frequency 2000 - 2800 MHz
Tuning Voltage See table below.
Bias Voltage +10 VDC @ 40 mA (Max.)
Output Power +2 dBm (Min.)
Tuning Sensitivity 16-58 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 22 dB (Typ.)
Frequency Pulling 5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 3 MHz/V (Typ.)
Tuning Port Capacitance 90 pF (Typ.)
Phase Noise @ 10 kHz -103 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>2000 (Max.)</td>
</tr>
<tr>
<td>10</td>
<td>2100 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>2300 (Min.)</td>
</tr>
<tr>
<td>20</td>
<td>2580 (Min.)</td>
</tr>
<tr>
<td>24</td>
<td>2800 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temp. Range</td>
<td>-55 to +125 °C</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>+10.5 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>+28 V</td>
</tr>
<tr>
<td>DC Voltage Applied to RF Out</td>
<td>± 25 V</td>
</tr>
</tbody>
</table>
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PERFORMANCE PLOTS

Frequency (MHz) vs. Control Voltage (Vdc)

Output Power (dBm) vs. Control Voltage (Vdc)
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PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V) vs. Control Voltage (Vdc) at +25°C, +85°C, and -40°C.

2nd Harmonic Suppression (dB) vs. Control Voltage (Vdc) at +25°C, +85°C, and -40°C.