VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO2024-5

OPTIMIZED BANDWIDTH

200 - 240 MHz

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

SPECIFICATIONS (Rev. B 08/12/09)

Frequency 200 - 240 MHz
Tuning Voltage See table below.
Bias Voltage +5 VDC @ 28 mA (Max.)
Output Power +6 dBm (Min.)
Tuning Sensitivity 4 - 17 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 17 dB (Typ.)
Frequency Pulling 0.8 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 0.6 MHz/V (Typ.)
Tuning Port Capacitance 270 pF (Typ.)
Phase Noise @ 10 kHz -121 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>200 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>240 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temp. Range</td>
<td>-55 to +125 °C</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>+5 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>+10 V</td>
</tr>
<tr>
<td>DC Voltage Applied to RF Out</td>
<td>± 25 V</td>
</tr>
</tbody>
</table>

This product is manufactured under one or more of the following patents. Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,550,754; 5,605,421; 5,632,632; 5,805,755; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 7,548,311; 7,548,317; 7,545,229; 7,563,174; 7,580,693; 7,612,296; 7,548,311; 7,548,317; 7,545,229; 7,563,174; 2,524,751

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PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

Tuning Voltage (VDC)

2nd Harmonic Suppression (dB)

Tuning Voltage (VDC)