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

SPECIFICATIONS (Rev. A 12/01/08)

Frequency: 4850 - 5625 MHz

Tuning Voltage
See table below.

Bias Voltage
+5 VDC @ 41 mA (Max.)

Output Power
+2 dBm (Min.)

Tuning Sensitivity
47 - 62 MHz/V (Typ.)

Output Impedance
50 Ohms (Nom.)

Harmonic Suppression
22 dB (Typ.)

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

Frequency Pushing
1 MHz/V (Typ.)

Tuning Port Capacitance
60 pF (Typ.)

Phase Noise @ 10 kHz
-88 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>4850 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>4930 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>5075 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>5285 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>5460 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>5625 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

Storage Temp. Range
-55 to +125 °C

Bias Voltage
+5.5 V

Tuning Voltage
+28 V

DC Voltage Applied to RF Out
±25 V

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO485560-5

OPTIMIZED BANDWIDTH

4850 - 5625 MHz

PERFORMANCE PLOTS

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; 5,650,754; 5,665,411; 5,805,431; 6,523,620; 6,853,573; 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; 7,586,381; 7,605,670; 7,636,021; 2,563,174; 2,524,751

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO485560-5

OPTIMIZED BANDWIDTH

4850 - 5625 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