VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO160260-5
OPTIMIZED BANDWIDTH
1600 - 2600 MHz

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

SPECIFICATIONS (Rev. D 08/24/09)

Frequency 1600 - 2600 MHz
Tuning Voltage See table below.
Bias Voltage +5 VDC @ 28 mA (Max.)
Output Power +3 dBm (Min.)
Tuning Sensitivity 60 - 130 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 15 dB (Typ.)
Frequency Pulling 3 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 1 MHz/V (Typ.)
Tuning Port Capacitance 120 pF (Typ.)
Phase Noise @ 10 kHz -95 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>1600 (Max)</td>
</tr>
<tr>
<td>5</td>
<td>1800 (Min)</td>
</tr>
<tr>
<td>8</td>
<td>2100 (Min)</td>
</tr>
<tr>
<td>12</td>
<td>2400 (Min)</td>
</tr>
<tr>
<td>15</td>
<td>2600 (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>±5.5 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>±26 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; 5,450,751; 5,605,421; 5,625,573; 5,888,189; 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; 2,563,174; 7,580,693; 7,612,296; 2,524,751

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OPTIMIZED BANDWIDTH
1600 - 2600 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)

Frequency (MHz)

Control Voltage (Vdc)

Output Power (dBm)

+25ºC +85ºC -40ºC

+25ºC +85ºC -40ºC
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO160260-5

OPTIMIZED BANDWIDTH

1600 - 2600 MHz

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| Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,605,670; 7,636,021; 2,533,525

PERFORMANCE PLOTS

Control Voltage (Vdc)

Tuning Sensitivity (MHz/V)

Control Voltage (Vdc)

2nd Harmonic Suppression (dB)