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

SPECIFICATIONS (Rev. G 11/17/08)

Frequency: 1500 - 3200 MHz
Tuning Voltage: See table below.
Bias Voltage: +5 VDC @ 30 mA (Max.)
Output Power: +7 dBm (Min.)
Tuning Sensitivity: 40 - 160 MHz/V (Typ.)
Output Impedance: 50 Ohms (Nom.)
Harmonic Suppression: 10 dB (Typ.)
Frequency Pulling: 10 MHz (Max @ 1.75:1 VSWR)
Frequency Pushing: 5 MHz/V (Max.)
Phase Noise @ 10 kHz: -93 dBc/Hz (Typ.)
Operating Temperature Range: -30 to +70 °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>1500 (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>2700 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>2900 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>3180 (Min.)</td>
</tr>
<tr>
<td>20</td>
<td>3200 (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

Recommended PCB Layout

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; 5,805,431; 6,223,020; 6,852,575; 7,088,189; 7,196,591; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 7,545,229; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,548,311; 2,548,317; 2,563,174; 7,545,229; 7,580,693; 7,612,296; 2,524,751

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCMO150318-5

WIDE BANDWIDTH

1500 - 3200 MHz

PERFORMANCE PLOTS

+25ºC  +70ºC  -30ºC

Control Voltage (Vdc)

Output Power (dBm)

Control Voltage (Vdc)
VOLTAGE CONTROLLED OSCILLATOR
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1500 - 3200 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)

Tuning Sensitivity (MHz/V)

+25ºC  +70ºC  -30ºC

Control Voltage (Vdc)

2nd Harmonic Suppression (dB)

+25ºC  +70ºC  -30ºC

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