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

SPECIFICATIONS (Rev. H 02/17/10)

Frequency | 600 - 1700 MHz
Tuning Voltage | See table below.
Bias Voltage | +5 VDC @ 40 mA (Max.)
Output Power | +3 dBm (Min.)
Tuning Sensitivity | 25 - 80 MHz/V (Typ.)
Output Impedance | 50 Ohms (Nom.)
Harmonic Suppression | 12 dB (Typ.)
Frequency Pulling | 5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing | 5 MHz/V (Typ.)
Tuning Port Capacitance | 150 pF (Typ.)
Phase Noise @ 10 kHz | -100 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>600 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>780 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>1025 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>1270 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>1430 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>1540 (Min.)</td>
</tr>
<tr>
<td>25</td>
<td>1700 (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>+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: 5,180,810; 6,122,021; 5,385,549; 6,416,449; 6,650,754; 5,805,431; 6,226,625; 6,850,575; 7,086,165; 7,166,381; 7,168,361; 7,262,479; 7,489,842; 7,260,112; 7,365,612; 7,465,225; 7,468,311; 7,448,017; 7,546,229; 7,548,065; 7,585,671; 7,606,621; 7,306,221; 7,332,625; Patenting: 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; 2,548,317; 2,563,174; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCMO60170-5
WIDE BANDWIDTH
600 - 1700 MHz

PERFORMANCE PLOTS
**VOLTAGE CONTROLLED OSCILLATOR**

**SURFACE MOUNT MODEL: DCMO60170-5**

**WIDE BANDWIDTH**

600 - 1700 MHz

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**PERFORMANCE PLOTS**

**Tuning Sensitivity (MHz/V)**

- +25°C
- +85°C
- -40°C

**2nd Harmonic Suppression (dB)**

- +25°C
- +85°C
- -40°C