VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCMO3288-5
WIDE BANDWIDTH

320 - 880 MHz MHz

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

SPECIFICATIONS (Rev. E 08/10/09)

Frequency 320 - 880 MHz
Tuning Voltage See table below.
Bias Voltage +5 VDC @ 28 mA (Max.)
Output Power +3 dBm (Min)
Tuning Sensitivity 15 - 40 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 10 dB (Typ.)
Frequency Pulling 5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 2 MHz/V (Typ.)
Tuning Port Capacitance 270 pF (Typ.)
Phase Noise @ 10 kHz -109 dB/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>320 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>400 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>510 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>630 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>720 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>790 (Min.)</td>
</tr>
<tr>
<td>24</td>
<td>880 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Item</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; 5,650,754; 5,805,431; 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; 2,563,174; 7,580,693; 7,612,296; 2,524,751

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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; 7,031,693; 7,032,051; 7,036,021; 2,533,623

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