VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCMO135270-8

WIDE BANDWIDTH

1350 - 2700 MHz

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

SPECIFICATIONS (Rev. D 09/10/08)

Frequency
1350 - 2700 MHz

Tuning Voltage (Full Band)
0.5 - 20 VDC (Nom.)

Bias Voltage
+8 VDC @ 40 mA (Max.)

Output Power
+4 dBm (Min.)

Tuning Sensitivity
45 - 150 MHz/V (Typ.)

Output Impedance
50 Ohms (Nom.)

Harmonic Suppression
15 dBc (Typ.)

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

Frequency Pushing
5 MHz/V (Typ.)

Phase Noise @ 10 kHz
-93 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>1350 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>1450 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>1800 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>2250 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>2450 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>2600 (Min.)</td>
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<tr>
<td>20</td>
<td>2700 (Min.)</td>
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</tbody>
</table>

Package # 278LF

RECOMMENDED PCB LAYOUT
VOLTAGE CONTROLLED OSCILLATOR
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1350 - 2700 MHz

PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

-25°C
+85°C
-40°C

2nd Harmonic Suppression (dB)

-25°C
+85°C
-40°C