VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO204235-8

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

SPECIFICATIONS (Rev. E 09/15/09)

Frequency | 2040 - 2350 MHz
Tuning Voltage | See table below.
Bias Voltage | +8 VDC @ 27 mA (Max.)
Output Power | +3 dBm (Min.)
Tuning Sensitivity | 12 - 25 MHz/V (Typ.)
Output Impedance | 50 Ohms (Nom.)
Harmonic Suppression | 10 dB (Typ.)
Frequency Pulling | 2 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing | 2 MHz/V (Typ)
Tuning Port Capacitance | 66 pF (Typ.)
Phase Noise @ 10 kHz | -109 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>2040 (Max)</td>
</tr>
<tr>
<td>5</td>
<td>2060 (Min)</td>
</tr>
<tr>
<td>8</td>
<td>2100 (Min)</td>
</tr>
<tr>
<td>12</td>
<td>2150 (Min)</td>
</tr>
<tr>
<td>15</td>
<td>2200 (Min)</td>
</tr>
<tr>
<td>18</td>
<td>2275 (Min)</td>
</tr>
<tr>
<td>24</td>
<td>2350 (Min)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage        | +8.5 V         |
| Tuning Voltage      | ±28 V          |
| DC Voltage Applied to RF Out | ± 25 V |

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; 7,605,670; 2,524,751

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VOLTAGE CONTROLLED OSCILLATOR
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OPTIMIZED BANDWIDTH
2040 - 2350 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)
Tuning Sensitivity (MHz/V)
+25ºC  +85ºC  -40ºC

2nd Harmonic Suppression (dB)
Control Voltage (Vdc)
+25ºC  +85ºC  -40ºC