VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO206209-8

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

SPECIFICATIONS (Rev. C 01/02/12)

Frequency 2065 - 2095 MHz
Tuning Voltage See table below.
Bias Voltage +8 VDC @ 28 mA (Max.)
Output Power +1 dBm (Min.)
Tuning Sensitivity 5.5 - 10 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 25 dB (Typ.)
Frequency Pulling 2 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 2 MHz/V (Typ.)
Tuning Port Capacitance 42 pF (Typ.)
Phase Noise @ 10 kHz -115 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>2065 (Max)</td>
</tr>
<tr>
<td>5</td>
<td>2085 (Min)</td>
</tr>
<tr>
<td>8</td>
<td>2095 (Min)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

Storage Temp. Range -55 to +125 °C
Bias Voltage +8.5 V
Tuning Voltage +15 V
DC Voltage Applied to RF Out ±25 V

PACKAGE # 278LF

RECOMMENDED PCB LAYOUT

DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE
DECIMAL PLACES: ± 0.015
ALL UNLABELED FINS TO BE GROUNDED.
PACKAGE MOUNTING: SEE APPLICATION NOTE AM7200 AND AM7300

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; 2,524,751; 7,580,693; 7,605,670; 7,612,296; 7,636,021; 2,533,623; Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 1 1/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,524,751
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OPTIMIZED BANDWIDTH

2065 - 2095 MHz

PERFORMANCE PLOTS
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