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

SPECIFICATIONS (Rev. C 02/24/10)

Frequency 1910 - 2350 MHz

Tuning Voltage See table below.

Bias Voltage +10 VDC @ 35 mA (Max.)

Output Power +3 dBm (Min.)

Tuning Sensitivity 32 - 45 MHz/V (Typ.)

Output Impedance 50 Ohms (Nom.)

Harmonic Suppression 22 dB (Typ.)

Frequency Pulling 5 MHz (Typ. @ 1.75:1 VSWR)

Frequency Pushing 1 MHz/V (Typ.)

Tuning Port Capacitance 68 pF (Typ.)

Phase Noise @ 10 kHz -105 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>1920 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>2000 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>2100 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>2230 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>2350 (Min.)</td>
</tr>
</tbody>
</table>

Absoulte Maximum Ratings

Storage Temp. Range -55 to +125 ºC

Bias Voltage +10.5 V

Tuning Voltage +18 V

DC Voltage Applied to RF Out ±25 V

Package # 278LF

RECOMMENDED PCB LAYOUT

DIMENSIONS IN INCHES

TOLERANCES ON THREE DECIMAL PLACES ± 0.005

ALL UNLabeled FINS TO BE GROUNDED

PACKAGE MOUNTING: SEE APPLICATION NOTE AM7200 & AM7300
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO191235-10

OPTIMIZED BANDWIDTH

1910 - 2350 MHz

PERFORMANCE PLOTS

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; 6,523,625; 6,852,573; 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; 7,580,693; 7,586,381; 7,605,670; 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; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO191235-10

OPTIMIZED BANDWIDTH 1910 - 2350 MHz

PERFORMANCE PLOTS

Performance plots showing tuning sensitivity and 2nd harmonic suppression across different control voltages and temperatures.

+25°C | +85°C | -40°C

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