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

SPECIFICATIONS (Rev. A 10/09/08)

Frequency 3600 - 4400 MHz
Tuning Voltage See table below.
Bias Voltage +8 VDC @ 55 mA (Max.)
Output Power +2 dBm (Min.)
Tuning Sensitivity 90 - 125 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 22 dB (Typ.)
Frequency Pulling 4 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 4 MHz/V (Typ.)
Tuning Port Capacitance 72 pF (Typ.)
Phase Noise @ 10 kHz -87 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>3500 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>3700 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>4000 (Min.)</td>
</tr>
<tr>
<td>10</td>
<td>4200 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>4400 (Min.)</td>
</tr>
<tr>
<td>14</td>
<td>4500 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

Storage Temp. Range -55 to +125 °C
Bias Voltage +8.5 V
Tuning Voltage +18 V
DC Voltage Applied to RF Out ±25 V
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO360440-8
OPTIMIZED BANDWIDTH
3600 - 4400 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)
Freqency (MHz)

+25°C  +85°C  -40°C

Output Power (dBm)

+25°C  +85°C  -40°C
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO360440-8

OPTIMIZED BANDWIDTH
3600 - 4400 MHz

PERFORMANCE PLOTS

![Performance plots graph](image-url)

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; 5,505,324; 5,535,522; 5,650,754; 5,805,431; 5,832,630; 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; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,563,174; 7,580,693; 7,612,296; 2,524,751; 7,545,229; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,612,296; 2,524,751.

| Pending: 60/493075; 650/12711; 60/3053721; 62/563471; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 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 |

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