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

SPECIFICATIONS (Rev. B 07/20/09)
Frequency 2400 - 2700 MHz
Tuning Voltage See table below.
Bias Voltage +5V @ 23mA (Max.)
Output Power +3 dBm (Min.)
Tuning Sensitivity 28 - 38 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 23 dB (Typ.)
Frequency Pulling 5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 10 MHz/V (Typ.)
Tuning Port Capacitance 40 pF (Typ.)
Phase Noise @ 10 kHz -103 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>2400 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>2470 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>2560 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>2700 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings
| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage        | +5.5 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; 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; 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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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO240270-5
OPTIMIZED BANDWIDTH

2400 - 2700 MHz

PERFORMANCE PLOTS

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7,724,751

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO240270-5

OPTIMIZED BANDWIDTH

2400 - 2700 MHz

PERFORMANCE PLOTS

![Tuning Sensitivity Graph](image)

![2nd Harmonic Suppression Graph](image)