FEATURES:
► Exceptional Phase Noise Performance
► Small Size, Surface Mount
► Patented REL-PRO® Technology
► Buffered Output

SPECIFICATIONS (Rev. B 10/17/08)

Frequency 500 - 1250 MHz
Tuning Voltage See table below.
Bias Voltage +10 VDC @ 45 mA (Max.)
Output Power +1 dBm (Typ.)
Tuning Sensitivity 18 - 55 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom)
Harmonic Suppression 12 dB (Typ.)
Frequency Pulling 5 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing 4 MHz/V (Typ.)
Tuning Port Capacitance 450 pF (Typ.)
Phase Noise @ 10 kHz -110 dBc/Hz (Typ.)
Operating Temperature Range -40 to +65 °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>500 (Max.)</td>
</tr>
<tr>
<td>8</td>
<td>700 (Min.)</td>
</tr>
<tr>
<td>16</td>
<td>1000 (Min.)</td>
</tr>
<tr>
<td>24</td>
<td>1250 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage        | +10.5 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; 6,055,635; 6,082,575; 7,088,191; 7,160,381; 7,186,091; 7,262,970; 7,300,642; 7,290,113; 7,350,412; 7,496,525; 2,549,311; 2,540,317; 7,095,299; 7,582,685; 7,086,391; 7,085,870; 7,092,621; 1,833,023; 2,533,627; 6,055,751; EV31369834; 1/259766; 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 1/259766; 60/710310; 10/937525/60/736901; 60/732787; 7,496,525; 2,549,311; 2,540,317; 7,545,525; 2,563,174; 7,262,196; 2,524,751
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCYR50125-10

YIG REPLACEMENT SERIES

500 - 1250 MHz

Performance Plots

Frequency (MHz)

Control Voltage (Vdc)

Output Power (dBm)

Control Voltage (Vdc)
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCYR50125-10
YIG REPLACEMENT SERIES
500 - 1250 MHz

PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

-25°C  +85°C  -40°C

2nd Harmonic Suppression (dB)

-25°C  +85°C  -40°C