FEATURES:
- Optimized Tuning Frequency Band
- Exceptional Phase Noise Performance
- Small Size, Surface Mount
- Patented REL-PRO® Technology
- Planar Resonator Construction

SPECIFICATIONS (Rev. A 02/25/08)

Frequency
- 5040 MHz

Tuning Voltage
- 0.5 - 5 VDC

Bias Voltage
- +5 VDC @ 28 mA (Max.)

Output Power
- +2.0 dBm (Min.)

Tuning Sensitivity
- 8 - 20 MHz/V (Typ.)

Output Impedance
- 50 Ohms (Nom.)

Harmonic Suppression
- 15 dB (Typ.)

Frequency Pulling
- 8 MHz (Typ. @ 1.75 VSWR)

Frequency Pushing
- 8 MHz/V (Typ.)

Tuning Port Capacitance
- 14 pF (Typ.)

Phase Noise @ 10 kHz
- -103 dBc/Hz (Typ.)

Operating Temperature Range
- -40 to +85 °C

Absolute Maximum Ratings

Storage Temp. Range
- -55 to +125 °C

Bias Voltage
- +5.5 V

Tuning Voltage
- +7 V

DC Voltage Applied to RF Out
- ±25 V

Package #
- 278LF

Phase Noise

<table>
<thead>
<tr>
<th>Offset Frequency (Hz)</th>
<th>Phase Noise (dBc/Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>-100</td>
</tr>
<tr>
<td>10000</td>
<td>-110</td>
</tr>
<tr>
<td>100000</td>
<td>-120</td>
</tr>
<tr>
<td>1000000</td>
<td>-130</td>
</tr>
<tr>
<td>10000000</td>
<td>-140</td>
</tr>
</tbody>
</table>

Sample Phase Noise Graph

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; 7,612,296; 2,524,751; 2,563,174; 7,548,317; 7,580,693; 7,612,296; 2,524,751

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCSR5040-5

OPTIMIZED FREQUENCY
5040 MHz

PERFORMANCE PLOTS