VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCFO35105-5

Ultra-Wide Bandwidth
350-1050 MHz

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

SPECIFICATIONS (Rev. F 12/20/10)

Frequency 350 - 1050 MHz
Tuning Voltage See table below.
Bias Voltage +5 VDC @ 60 mA (Max.)
Output Power +6 dBm (Min.)
Tuning Sensitivity 27 - 54 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 25 dB (Typ.)
Frequency Pulling 4 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 2 MHz/V (Typ.)
Tuning Port Capacitance 470 pF (Typ.)
Phase Noise @ 10 kHz -110 dBc/Hz (Typ.)
Operating Temperature Range -30 to +75 °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>350 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>430 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>550 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>720 (Min.)</td>
</tr>
<tr>
<td>15</td>
<td>860 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>950 (Min.)</td>
</tr>
<tr>
<td>25</td>
<td>1050 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Storage Temp. Range</th>
<th>-55 to +125 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bias Voltage</td>
<td>+5.25 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>+28 V</td>
</tr>
<tr>
<td>DC Voltage Applied to RF Out</td>
<td>± 25 V</td>
</tr>
</tbody>
</table>

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

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350-1050 MHz

PERFORMANCE PLOTS
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SURFACE MOUNT MODEL: DCF035105-5

ULTRA-WIDE BANDWIDTH

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