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

SPECIFICATIONS (Rev. D 04/27/2020)

Frequency
6000 - 12000 MHz

Tuning Voltage
0.5-15 V

Bias Voltage (Vcc)
+5 VDC @ 187 mA (Max.)

Output Power
2 dBm (Min.)

Tuning Sensitivity
300 - 900 MHz/V (Typ.)

Output Impedance
50 Ohms (Nom.)

Harmonic Suppression
17 dB (Typ.)

Sub-Harmonic
10 dB (Typ.)

Frequency Pulling
100 MHz (Typ. @ 1.75:1 VSWR)

Frequency Pushing
32 MHz/V (Typ.)

Typical Phase Noise

<table>
<thead>
<tr>
<th>Offset (kHz)</th>
<th>-89</th>
<th>-97</th>
<th>-120</th>
<th>-140</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 kHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 kHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 MHz</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Operating Temperature Range
-40 to +85 °C

Absolute Maximum Ratings

Storage Temp. Range
-65 to +125 °C

Bias Voltage
+5.5 V

DC Voltage Applied to RF Out
±25 V

Package #
454

Pin Out Config

<table>
<thead>
<tr>
<th>Pin Out Config</th>
<th>RF Out</th>
<th>No Connection</th>
<th>Vcc</th>
<th>Vtune</th>
<th>All Others</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pin 2</td>
<td>Pin 5</td>
<td>Pin 6</td>
<td>Pin 10</td>
<td>Case Ground</td>
</tr>
</tbody>
</table>
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCYS6001200-5
C TO X BAND 6000 - 12000 MHz

PERFORMANCE PLOTS

Frequency (MHz)

Control Voltage (Vdc)

Output Power (dBm)

Control Voltage (Vdc)
PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

Control Voltage (Vdc)

2nd Harmonic Suppression (dB)

Control Voltage (Vdc)

+25°C  +85°C  -40°C