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

SPECIFICATIONS (Rev. G 12/22/11)

Frequency: 3000 - 6000 MHz
Tuning Voltage: See table below.
Bias Voltage: +5 VDC @ 50 mA (Max.)
Output Power: -3 dBm (Min.)
Tuning Sensitivity: 140 - 475 MHz/V (Typ.)
Output Impedance: 50 Ohms (Nom.)
Harmonic Suppression: 15 dB (Typ.)
Frequency Pulling: 16 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing: 8 MHz/V (Typ.)
Tuning Port Capacitance: 30 pF (Typ.)
Phase Noise @ 10 kHz: -75 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>0.3</td>
<td>3000 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>3950 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>4900 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>5600 (Min.)</td>
</tr>
<tr>
<td>16</td>
<td>6000 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temp. Range</td>
<td>-55 to +125 °C</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>+5.5 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>+18 V</td>
</tr>
<tr>
<td>DC Voltage Applied to RF Out</td>
<td>±25 V</td>
</tr>
</tbody>
</table>
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCYS300600-5
YIG REPLACEMENT SERIES
3000 - 6000 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)
+25ºC  +85ºC  -40ºC

Frequency (MHz)

Control Voltage (Vdc)
+25ºC  +85ºC  -40ºC

Output Power (dBm)
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCYS300600-5

YIG REPLACEMENT SERIES

3000 - 6000 MHz

PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V) vs. Control Voltage (Vdc)

2nd Harmonic Suppression (dB) vs. Control Voltage (Vdc)

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