FEATURES:
- Miniature Size, Surface Mount (0.3" x 0.3")
- Exceptional Phase Noise Performance
- Fast Tuning
- Planar Resonator Construction

SPECIFICATIONS (Rev. A 01/05/15)

- Frequency: 3400 - 4650 MHz
- Tuning Voltage: See table below.
- Bias Voltage: +5 VDC @ 30 mA (Max.)
- Output Power: 0 dBm (Min.)
- Tuning Sensitivity: 70 - 135 MHz/V (Typ.)
- Output Impedance: 50 Ohms (Nom.)
- Harmonic Suppression: 13 dB (Typ.)
- Frequency Pulling: 15 MHz (Typ. @ 1.75:1 VSWR)
- Frequency Pushing: 10 MHz/V (Typ.)
- Tuning Port Capacitance: 30 pF (Typ.)
- Typical Phase Noise:
  - Offset: dBc/Hz
  - 10 kHz: -86
  - 100 kHz: -109
- 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>0.5</td>
<td>3400 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>3380 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>3880 (Min.)</td>
</tr>
<tr>
<td>12</td>
<td>4300 (Min.)</td>
</tr>
<tr>
<td>18</td>
<td>4650 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

- Storage Temp. Range: -65 to +125 °C
- Bias Voltage: +5.5 V
- Tuning Voltage: +28 V
- DC Voltage Applied to RF Out: ±25 V

VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO340465-5

OPTIMIZED BANDWIDTH
3400 - 4650 MHz

PERFORMANCE PLOTS
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO340465-5
OPTIMIZED BANDWIDTH 3400 - 4650 MHz

PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

Control Voltage (Vdc)

+25ºC, +85ºC, -40ºC

2nd Harmonic Suppression (dB)

Control Voltage (Vdc)

+25ºC, +85ºC, -40ºC