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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Frequency</th>
<th>2300 - 2450 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuning Voltage</td>
<td>See table below.</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>+5 VDC @ 35 mA (Max.)</td>
</tr>
<tr>
<td>Output Power</td>
<td>+4 dBm (Min.)</td>
</tr>
<tr>
<td>Tuning Sensitivity</td>
<td>6 - 14 MHz/V (Typ.)</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>50 Ohms (Nom.)</td>
</tr>
<tr>
<td>Harmonic Suppression</td>
<td>12 dB (Typ.)</td>
</tr>
<tr>
<td>Frequency Pulling</td>
<td>2 MHz (Typ. @ 1.75:1 VSWR)</td>
</tr>
<tr>
<td>Frequency Pushing</td>
<td>1 MHz/V (Typ.)</td>
</tr>
<tr>
<td>Tuning Port Capacitance</td>
<td>55 pF (Typ.)</td>
</tr>
<tr>
<td>Typical Phase Noise</td>
<td>Offset</td>
</tr>
<tr>
<td></td>
<td>10 kHz</td>
</tr>
<tr>
<td></td>
<td>100 kHz</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +85 °C</td>
</tr>
</tbody>
</table>

Guaranteed Tuning Specifications

<table>
<thead>
<tr>
<th>Tuning Voltage (V)</th>
<th>Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>2300 (Max.)</td>
</tr>
<tr>
<td>5</td>
<td>2325 (Min.)</td>
</tr>
<tr>
<td>8</td>
<td>2350 (Min.)</td>
</tr>
<tr>
<td>11</td>
<td>2375 (Min.)</td>
</tr>
<tr>
<td>20</td>
<td>2450 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage        | +5.5 V         |
| Tuning Voltage      | +21 V          |
| DC Voltage Applied to RF Out | ± 25 V |
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO231243-5
OPTIMIZED BANDWIDTH
2300 - 2450 MHz

PERFORMANCE PLOTS

- Frequency (MHz) vs. Control Voltage (Vdc)
- Output Power (dBm) vs. Control Voltage (Vdc)

+25°C  +85°C
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO231243-5

OPTIMIZED BANDWIDTH 2300 - 2450 MHz

PERFORMANCE PLOTS

- Tuning Sensitivity (MHz/V)
- Second Harmonic Suppression (dB)

Control Voltage (Vdc)

+25°C  +85°C