VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO123127-10

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

SPECIFICATIONS (Rev. C 08/24/09)

Frequency 1230 - 1270 MHz

Tuning Voltage See table below.

Bias Voltage +10 VDC @ 20 mA (Max.)

Output Power +1 dBm (Min.)

Tuning Sensitivity 9 - 12 MHz/V (Typ.)

Output Impedance 50 Ohms (Nom.)

Harmonic Suppression 10 dB (Typ.)

Frequency Pulling 5 MHz (Typ. @ 1.75:1 VSWR)

Frequency Pushing 2 MHz/V (Typ.)

Tuning Port Capacitance 65 pF (Typ.)

Phase Noise @ 10 kHz -116 dBc/Hz (Typ.)

Guaranteed Tuning Specifications

<table>
<thead>
<tr>
<th>Tuning Voltage (V)</th>
<th>Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>1230 (Max.)</td>
</tr>
<tr>
<td>8</td>
<td>1270 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

Storage Temp. Range -55 to +125 ºC

Bias Voltage +10.5 V

Tuning Voltage +16 V

DC Voltage Applied to RF Out ± 25 V

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; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,533,623

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCR0123127-10

OPTIMIZED BANDWIDTH

1230 - 1270 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)

Frequency (MHz)

+25°C  +85°C  -40°C

Control Voltage (Vdc)

Output Power (dBm)

+25°C  +85°C  -40°C