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

SPECIFICATIONS (Rev. A 11/16/09)

Frequency 535 - 680 MHz
Tuning Voltage See table below.
Bias Voltage +5 VDC @ 31 mA (Max.)
Output Power +4 dBm (Min.)
Tuning Sensitivity 6 - 11 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 18 dB (Typ.)
Frequency Pulling 0.5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing 0.6 MHz/V (Typ.)
Tuning Port Capacitance 170 pF (Typ.)
Phase Noise @ 10 kHz -120 dBc/Hz (Typ.)
Operating Temperature Range -40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V) Frequency (MHz)
0.5 535 (Max.)
5 545 (Min.)
8 575 (Min.)
12 610 (Min.)
15 640 (Min.)
20 680 (Min.)

Absolute Maximum Ratings
Storage Temp. Range -55 to +125 °C
Bias Voltage +5.5 V
Tuning Voltage +24 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; 6,523,625; 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: DCRO5368-5

OPTIMIZED BANDWIDTH
535 - 680 MHz

PERFORMANCE PLOTS
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCRO5368-5

OPTIMIZED BANDWIDTH
535 - 680 MHz

PERFORMANCE PLOTS

-25°C  +85°C  -40°C

Control Voltage (Vdc)

Tuning Sensitivity (MHz/V)

0 2 4 6 8 10 12 14 16 18 20

2nd Harmonic Suppression (dB)

0 2 4 6 8 10 12 14 16 18 20

Control Voltage (Vdc)