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

SPECIFICATIONS (Rev. C 09/11/08)

- Frequency: 4710 MHz
- Tuning Voltage: 0.5 - 8 VDC
- Bias Voltage: +8 VDC @ 38 mA (Max.)
- Output Power: +4.0 dBm (Min.)
- Tuning Sensitivity: 4 - 6 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: 42 pF (Typ.)
- Phase Noise @ 10 kHz: -106 dBc/Hz (Typ.)
- Operating Temperature Range: -40 to +85 °C

Absolute Maximum Ratings

- Storage Temp. Range: -55 to +125 °C
- Bias Voltage: +8.5 V
- Tuning Voltage: +12 V
- DC Voltage Applied to RF Out: ± 25 V

Package # 278LF

- RECOMMENDED PCB LAYOUT
- Dimensions: 0.000 X 0.000
- Notes: 0.000 X 0.000
- Tolerances on three decimal places: ± 0.005
- All unlabelled pins to be grounded.

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCSR4710-8

OPTIMIZED BANDWIDTH

4710 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)

Frequency (MHz)

Output Power (dBm)

+25°C  +85°C  -40°C

+25°C  +85°C  -40°C

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VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCSR4710-8

OPTIMIZED BANDWIDTH

4710 MHz

PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

Control Voltage (Vdc)

+25°C → +85°C → -40°C

Second Harmonic Suppression (dB)

Control Voltage (Vdc)

+25°C → +85°C → -40°C