VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCSR4210-8

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: 4210 MHz
- Tuning Voltage: 0.5 - 8 VDC
- Bias Voltage: +8 VDC @ 38 mA (Max.)
- Output Power: +5 dBm (Min.)
- Tuning Sensitivity: 4 - 5 MHz/V (Typ.)
- Output Impedance: 50 Ohms (Nom.)
- Harmonic Suppression: 23 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: -109 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

Phase Noise Plot

- Offset Frequency (Hz)
- Phase Noise (dBc/Hz)

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; 5,605,814; 5,625,625; 5,903,576
7,088,189; 7,186,381; 7,198,561; 7,262,212; 7,295,642; 7,250,112; 7,305,612; 7,496,025; 2,548,311; 2,548,317; 7,545,229; 7,545,211; 7,545,211; 7,580,693; 7,605,670; 7,636,021; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751
Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; 30/3919834; 10/205796; 60/234884; 60/711013;
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4210 MHz

OPTIMIZED BANDWIDTH

PERFORMANCE PLOTS