

VOLTAGE CONTROLLED OSCILLATOR

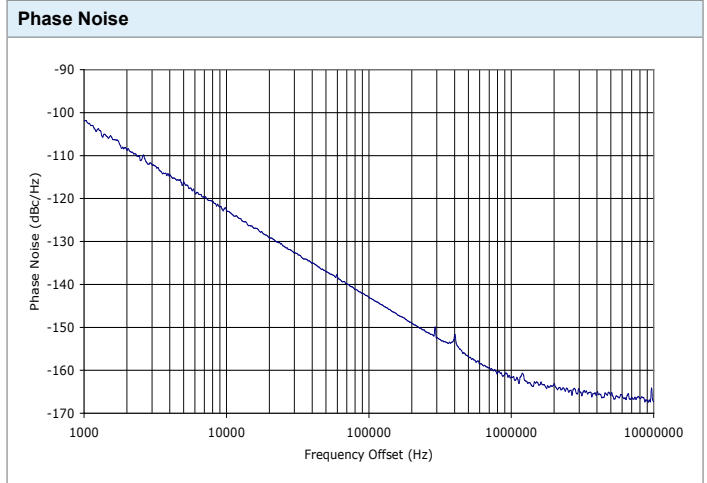
SURFACE MOUNT MODEL: DCSR100-5

OPTIMIZED BANDWIDTH

100 MHz

FEATURES:

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



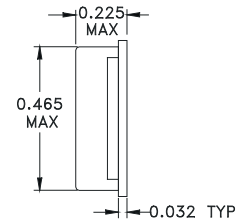
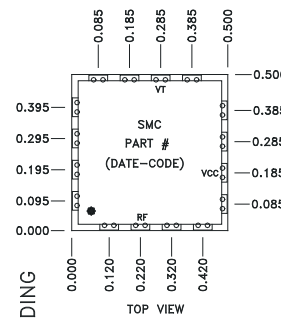
SPECIFICATIONS (Rev. B 11/11/08)

Frequency	100 MHz
Tuning Voltage	0 - 5 VDC
Bias Voltage	+5 VDC @ 30 mA (Max.)
Output Power	+7 dBm (Min.)
Tuning Sensitivity	0.15 - 0.3 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	22 dBc (Typ) / 15 dBc (Min)
Frequency Pulling	0.05 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	0.05 MHz/V (Typ.)
Tuning Port Capacitance	82 pF (Typ.)
Phase Noise @ 10 kHz	-128 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

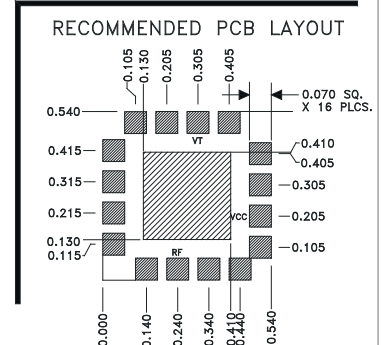
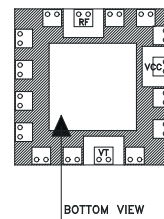
Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+10 V
DC Voltage Applied to RF Out	± 25 V

Package # 174LF



REL-PRO® PATENT PENDING



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

ALL UNLABELED PINS TO BE GROUND.

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
 Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787

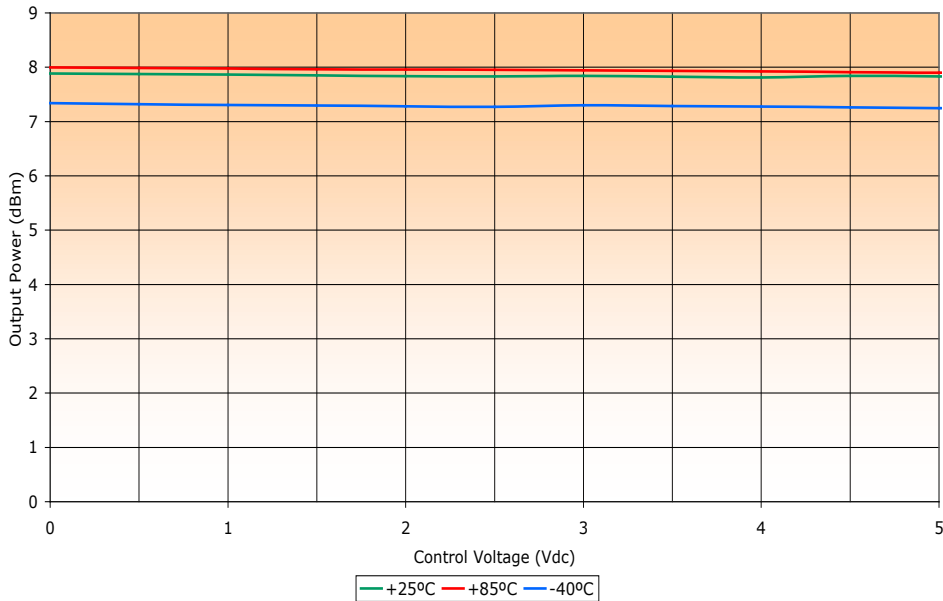
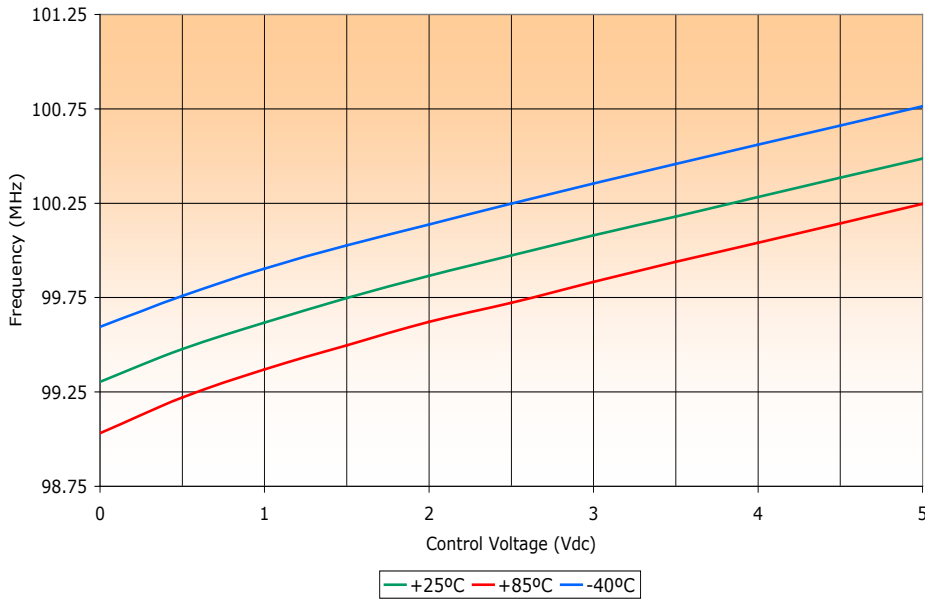


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCSR100-5

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PERFORMANCE PLOTS



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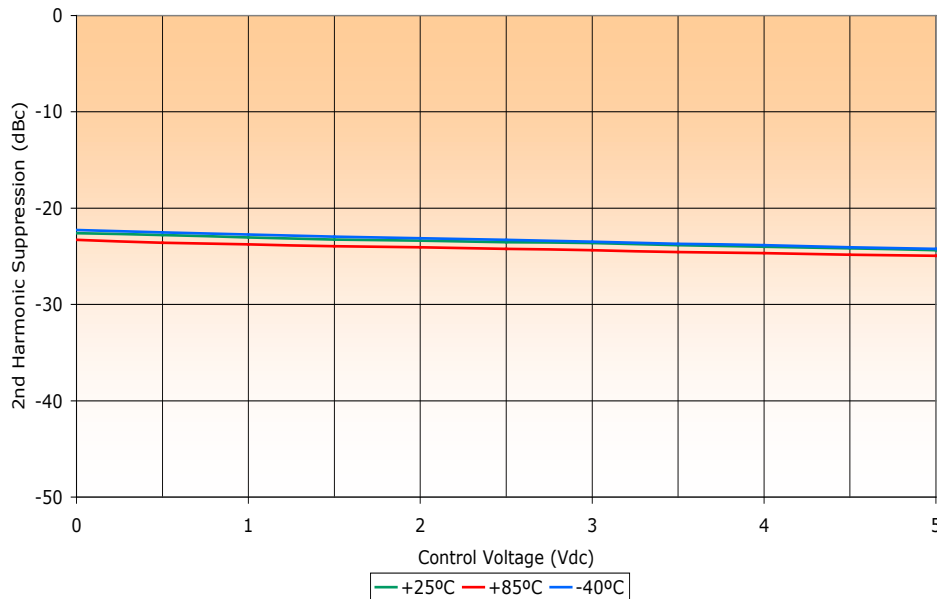
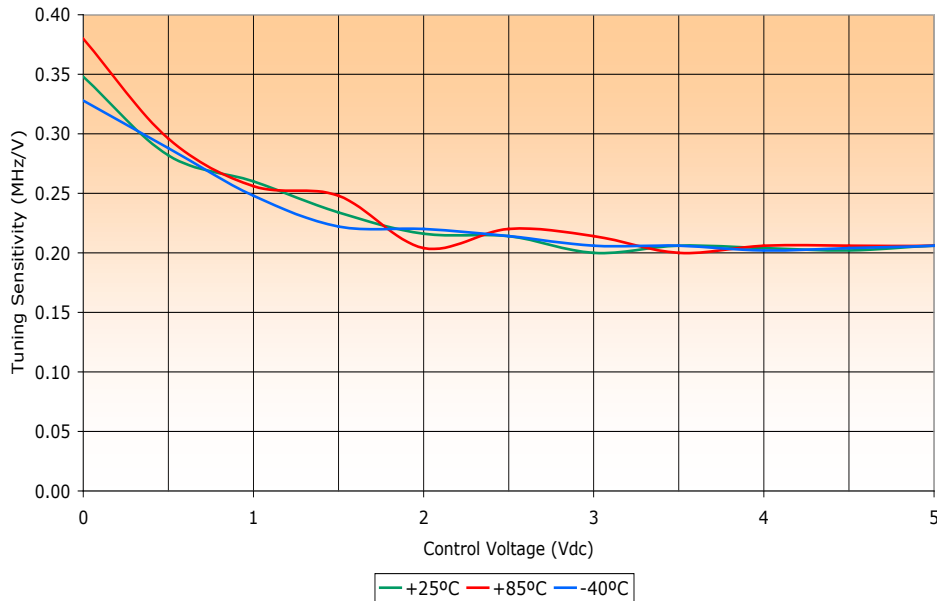


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