

# VOLTAGE CONTROLLED OSCILLATOR

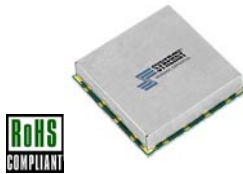
## SURFACE MOUNT MODEL: DCRO273290-10

OPTIMIZED BANDWIDTH

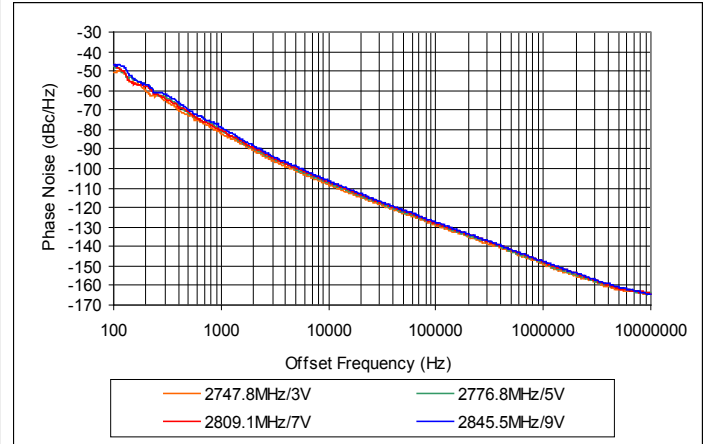
2730 - 2900 MHz

**FEATURES:**

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



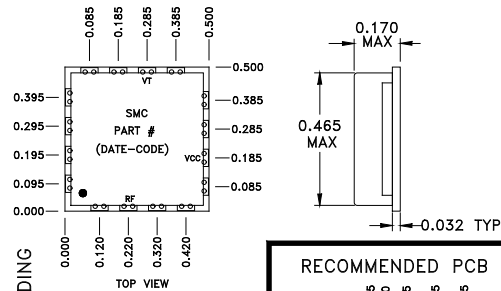
**Phase Noise**



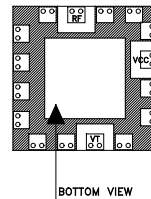
**SPECIFICATIONS (Rev. B 07/03/07)**

Frequency	2730 - 2900 MHz
Tuning Voltage (Full Band)	0.5 - 15 VDC
Bias Voltage	+10 VDC @ 35 mA (Max)
Output Power	+5 dBm (Min)
Tuning Sensitivity	15 - 25 MHz/V (Typ)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	30 dBc (Typ)
Frequency Pulling	1.5 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing	1.5 MHz/V (Typ)
Phase Noise @ 10 kHz	-108 dBc/Hz (Typ)
Operating Temperature Range	-40 to +85 °C

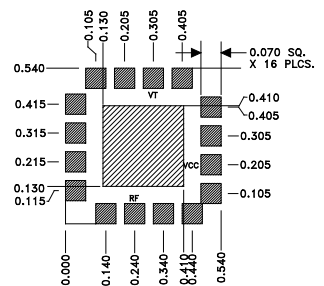
Package # 278LF



REL-PRO® PATENT PENDING



**RECOMMENDED PCB LAYOUT**



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015

ALL UNLABELED PINS TO BE GROUNDING.

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

**Guaranteed Tuning Specifications**

Tuning Voltage ( V )	Frequency ( MHz )
0.5	2730 (Max)
5	2750 (Min)
8	2800 (Min)
12	2850 (Min)
15	2900 (Min)

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 | 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



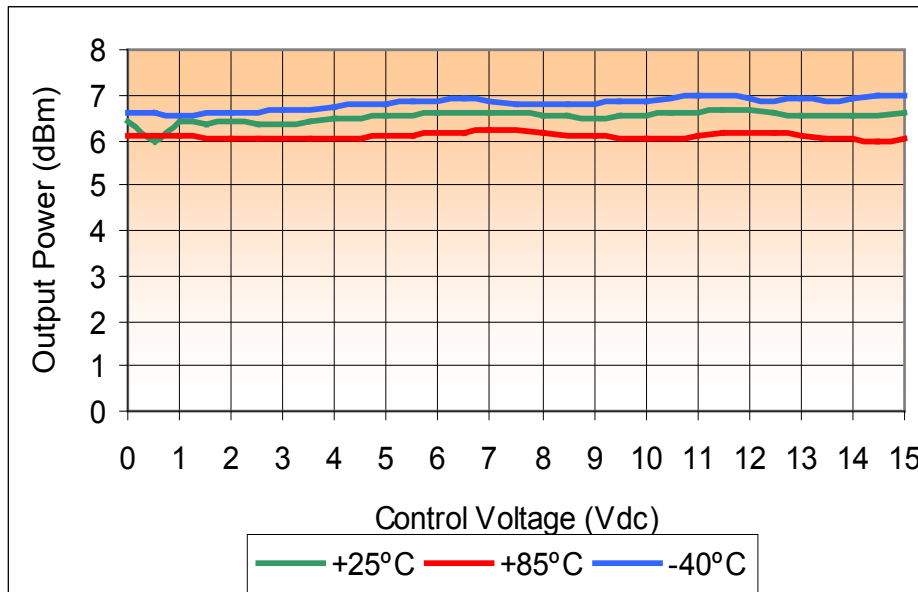
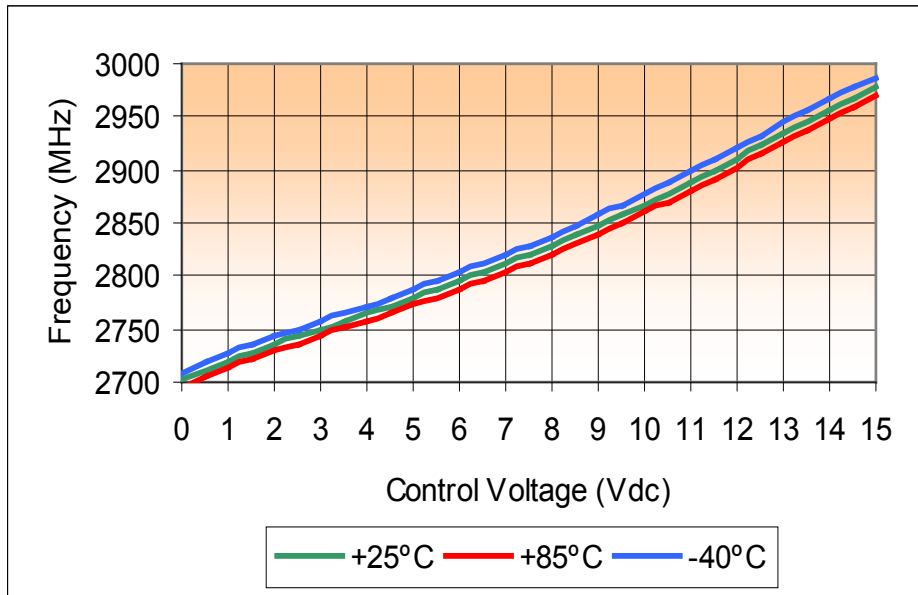
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PERFORMANCE PLOTS



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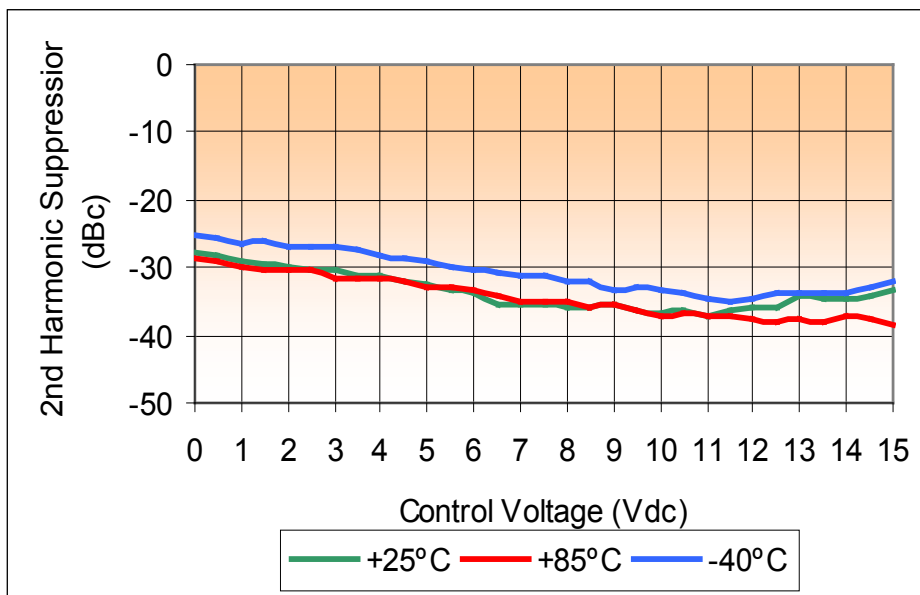
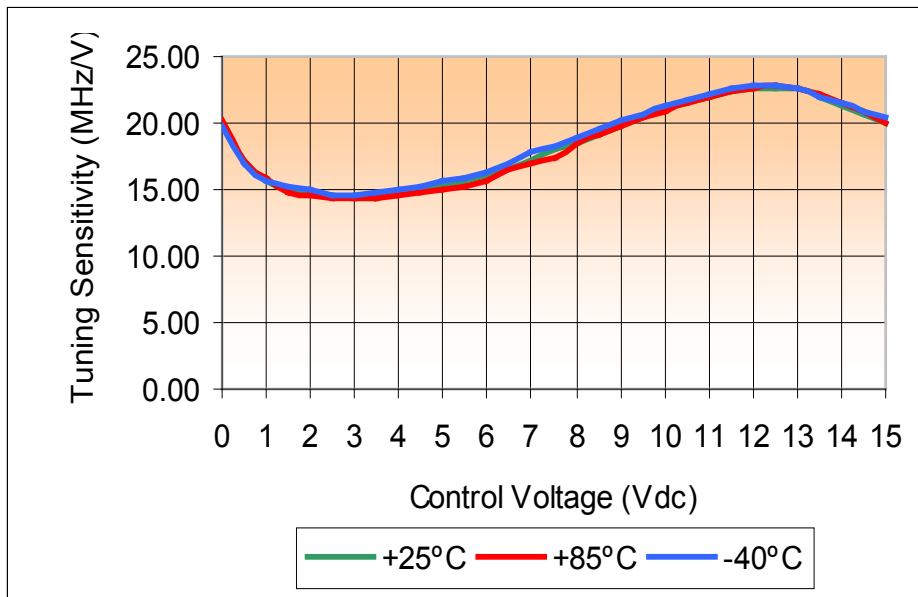
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