

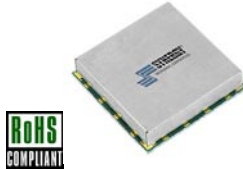
VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

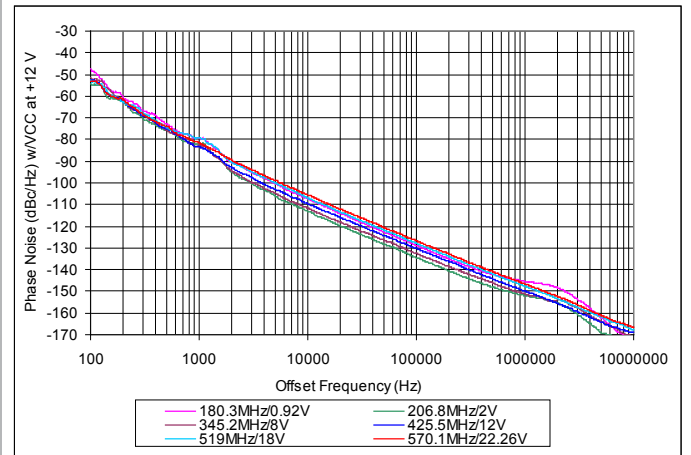
180 - 570 MHz

FEATURES:

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



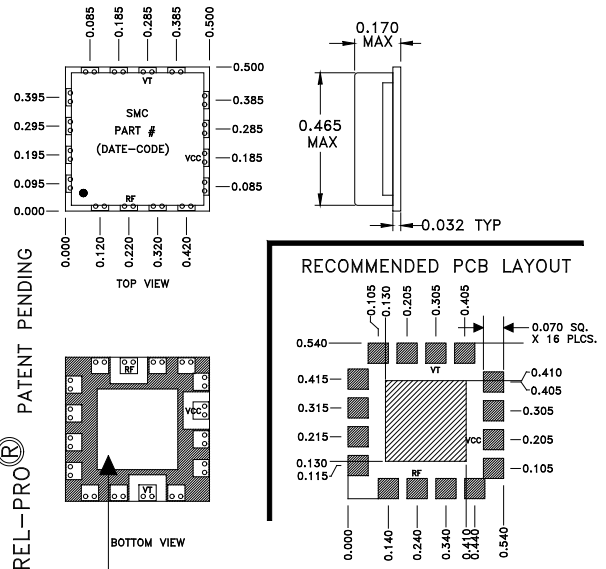
Phase Noise



SPECIFICATIONS (Rev. D 07/03/07)

Frequency	180 - 570 MHz
Tuning Voltage (Full Band)	0.5 - 24 VDC
Bias Voltage Range	+5 to +12 VDC @ 30 mA (Max)
Output Power	+3 dBm (Min)
Tuning Sensitivity	10 - 15 MHz/V (Typ)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	10 dBc (Typ)
Frequency Pulling	7 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing	2 MHz/V (Typ)
Phase Noise @ 10 kHz	-108 dBc/Hz (Typ)
Operating Temperature Range	-40 to +85 °C

Package # 278LF



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

ALL UNLABELED PINS TO BE GROUNDING.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	180 (Max)
5	260 (Min)
8	340 (Min)
12	420 (Min)
15	470 (Min)
18	505 (Min)
24	570 (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

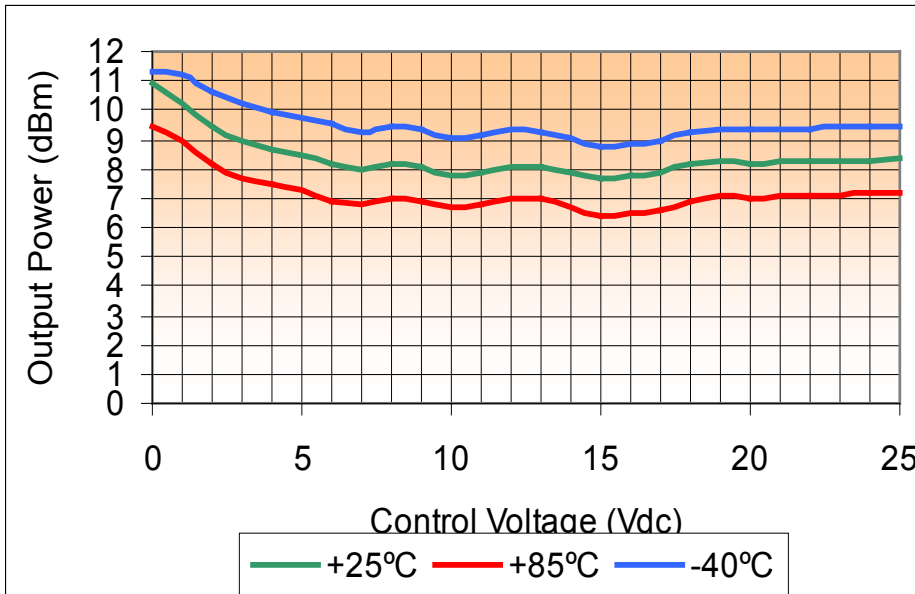
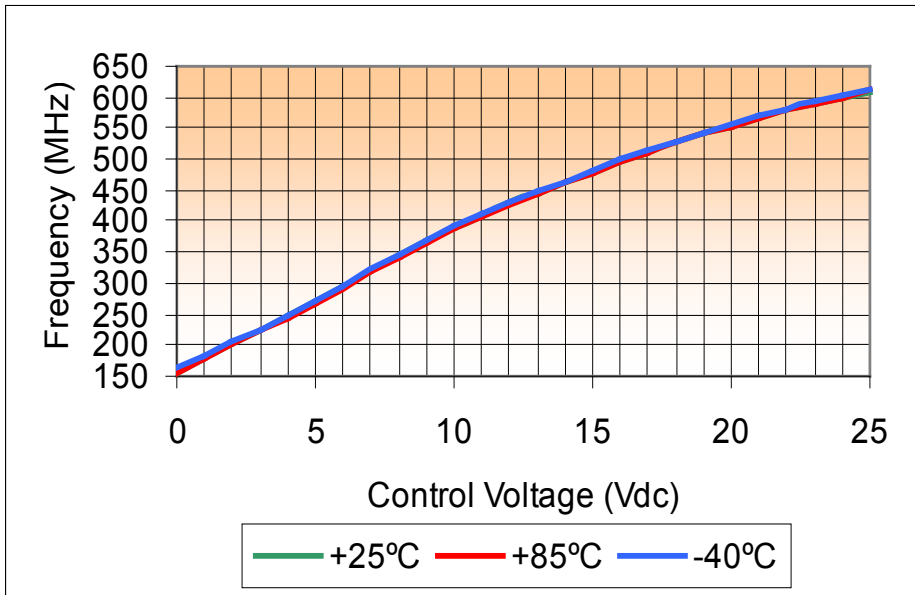


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

180 - 570 MHz

PERFORMANCE PLOTS



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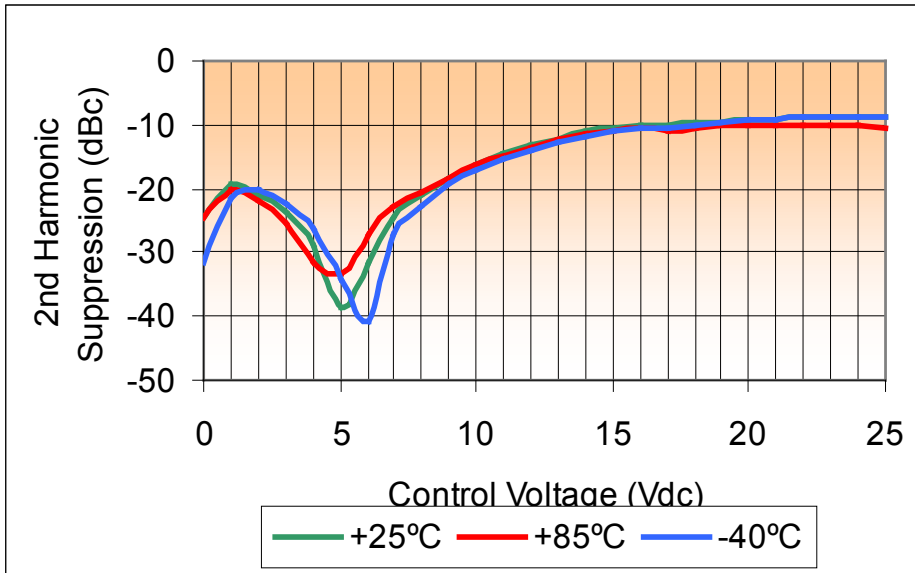
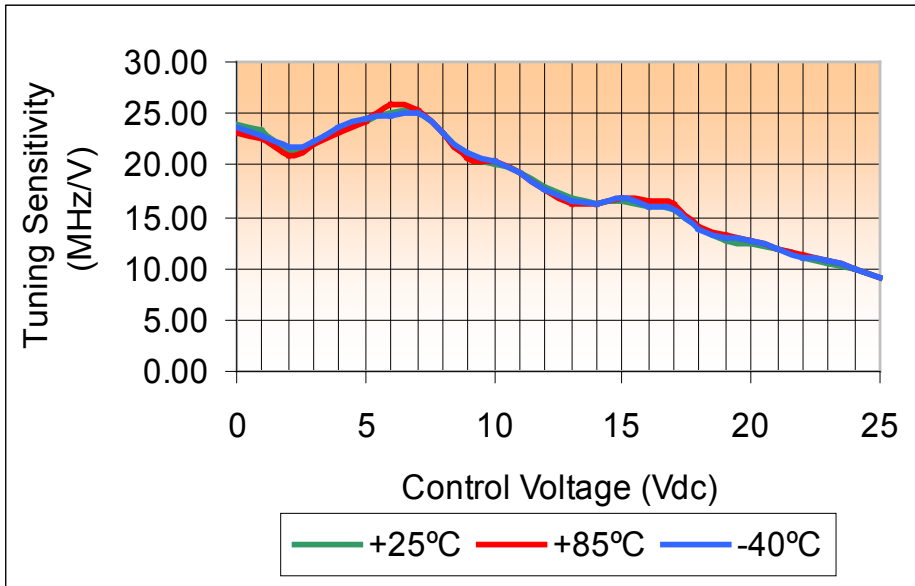
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

180 - 570 MHz

PERFORMANCE PLOTS



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