

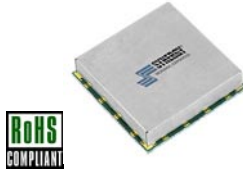
VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

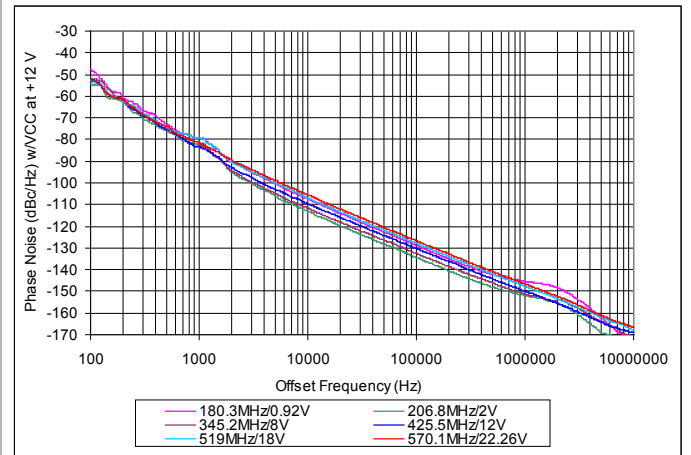
180 - 570 MHz

FEATURES:

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



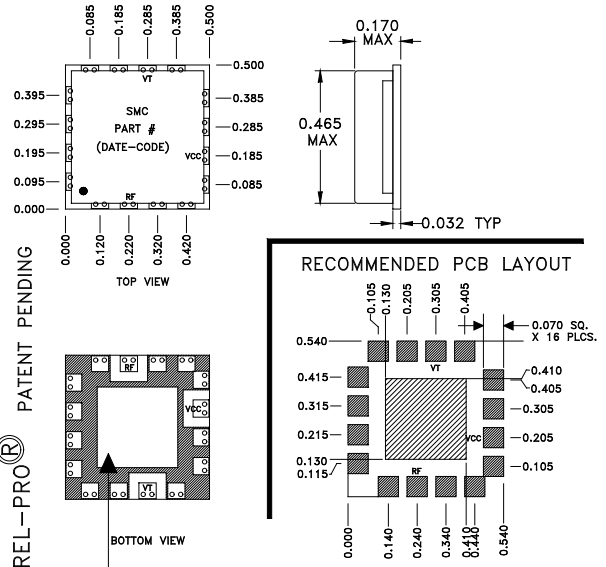
Phase Noise



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



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) |

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 GROUNDED.

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

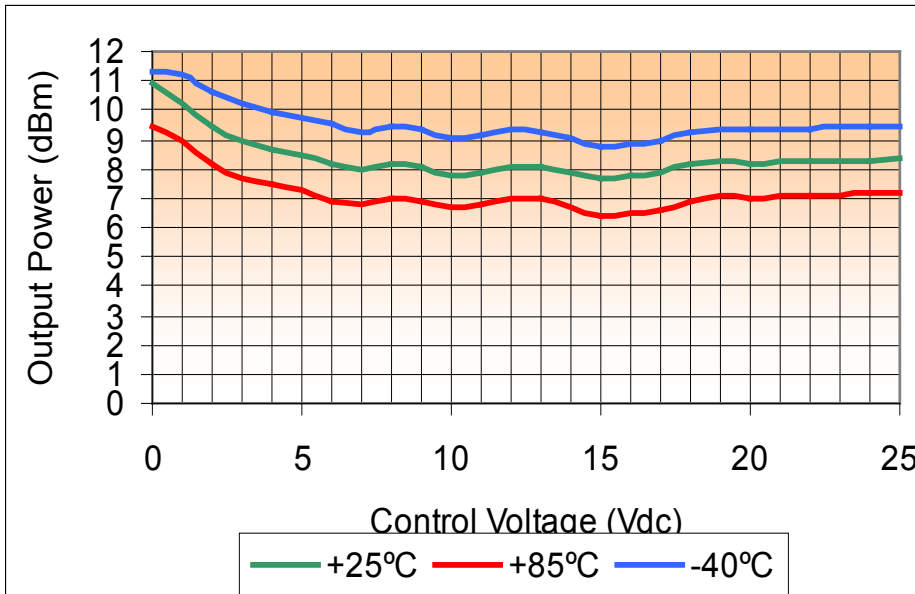
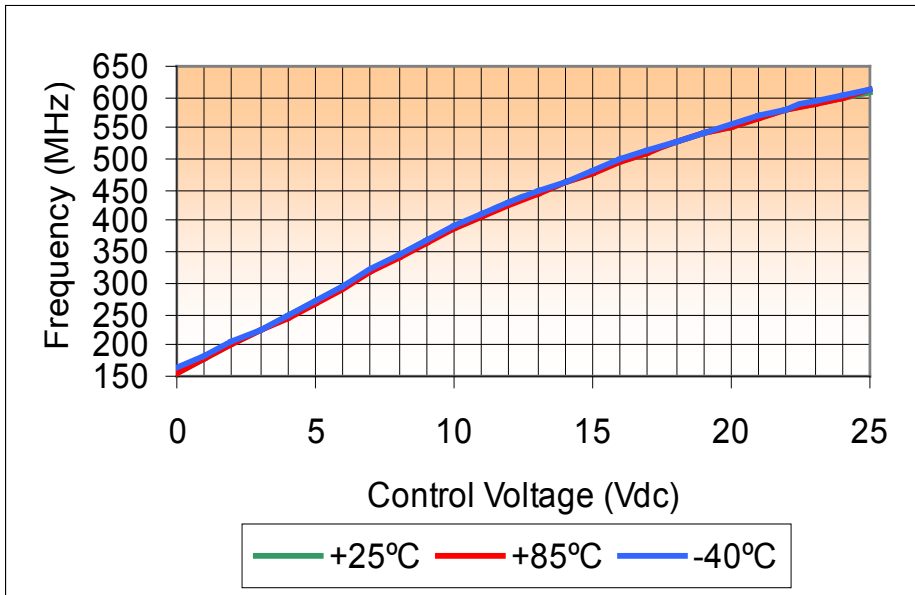


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

180 - 570 MHz

PERFORMANCE PLOTS



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201 McLean Boulevard • Paterson, New Jersey 07504 • Tel: (973) 881-8800 • Fax: (973) 881-8361
E-Mail: sales@synergymw.com • World Wide Web: <http://www.synergymw.com>



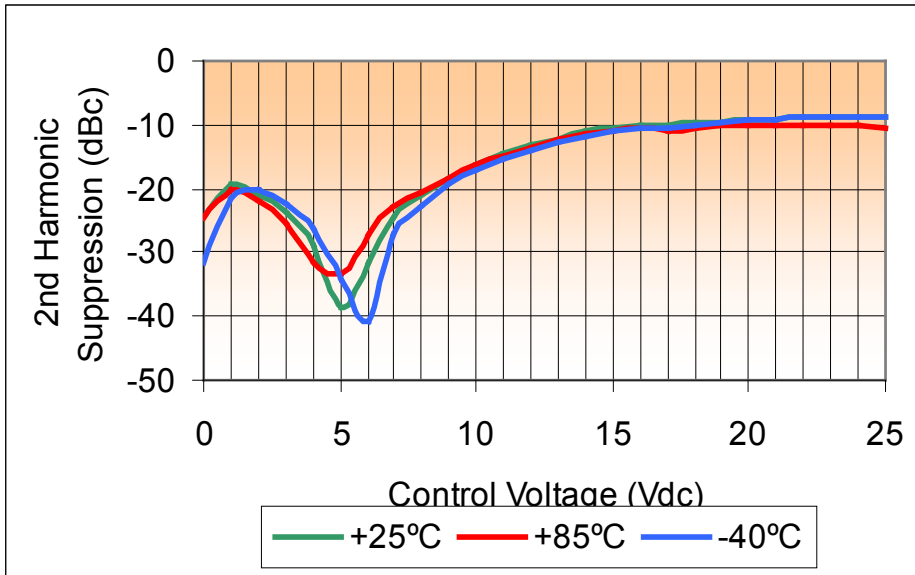
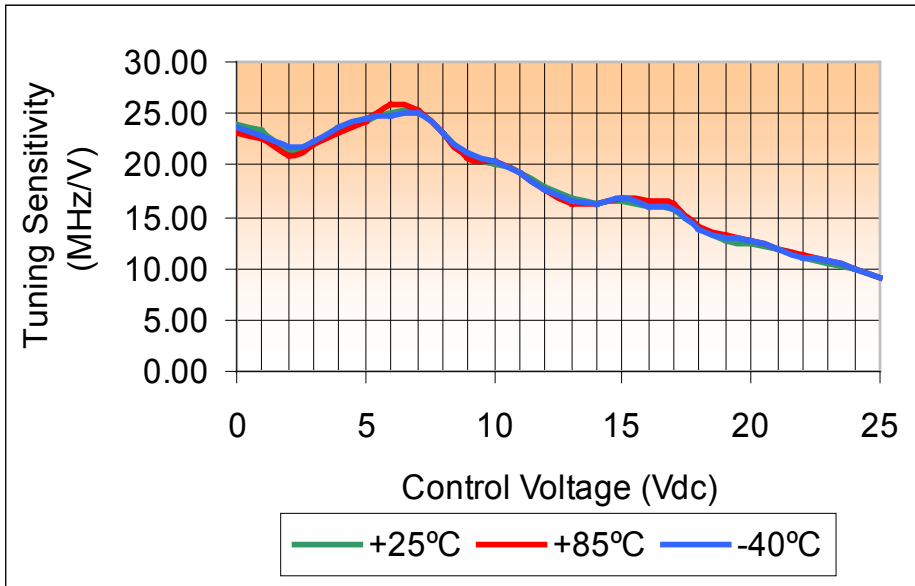
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

180 - 570 MHz

PERFORMANCE PLOTS



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 E-Mail: sales@synergymw.com • World Wide Web: <http://www.synergymw.com>

