

VOLTAGE CONTROLLED OSCILLATOR

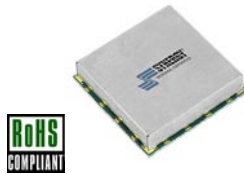
SURFACE MOUNT MODEL: DCMO170345-5

WIDE BANDWIDTH

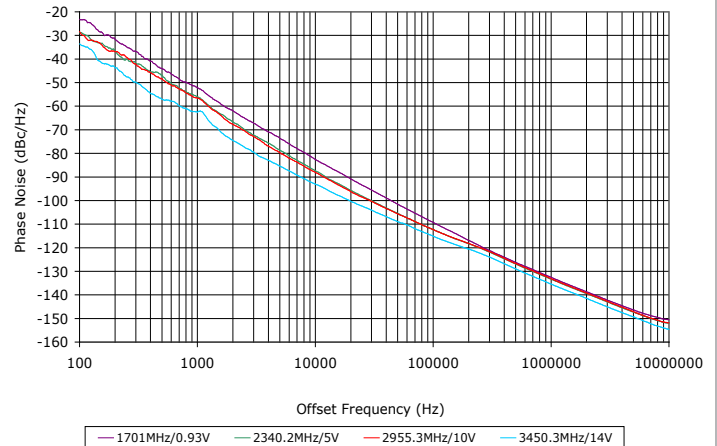
1700 - 3450 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. B 07/03/07)

Frequency	1700 - 3450 MHz
Tuning Voltage (Full Band)	See table below.
Bias Voltage	+5 VDC @ 50 mA (Max.)
Output Power	+4 dBm (Min.)
Tuning Sensitivity	120 - 200 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	14 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	12 MHz/V (Typ.)
Tuning Port Capacitance	50 pF (Typ.)
Phase Noise @ 10 kHz	-88 dBc/Hz (Typ.)
Operating Temperature Range	-20 to +70 °C

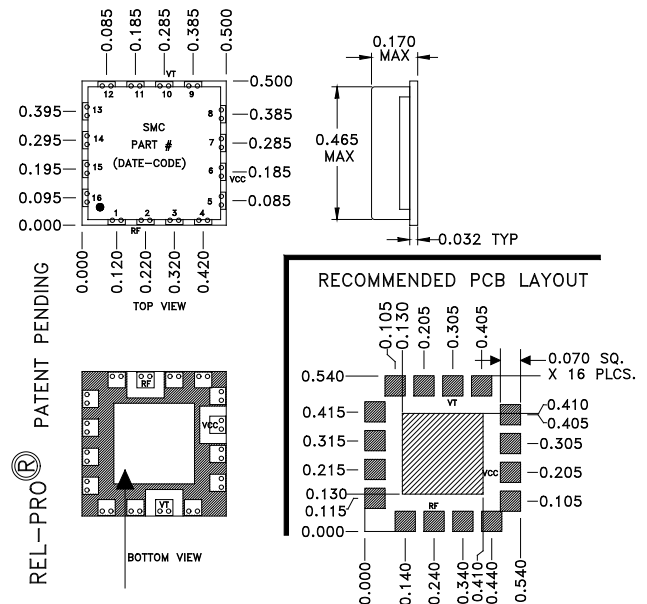
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	1700 (Max)
5	2100 (Min)
8	2450 (Min)
12	2950 (Min)
16	3450 (Min)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+20 V
DC Voltage Applied to RF Out	± 25 V

Package # 278LF



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

DIMENSIONS ARE IN INCHES.

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
 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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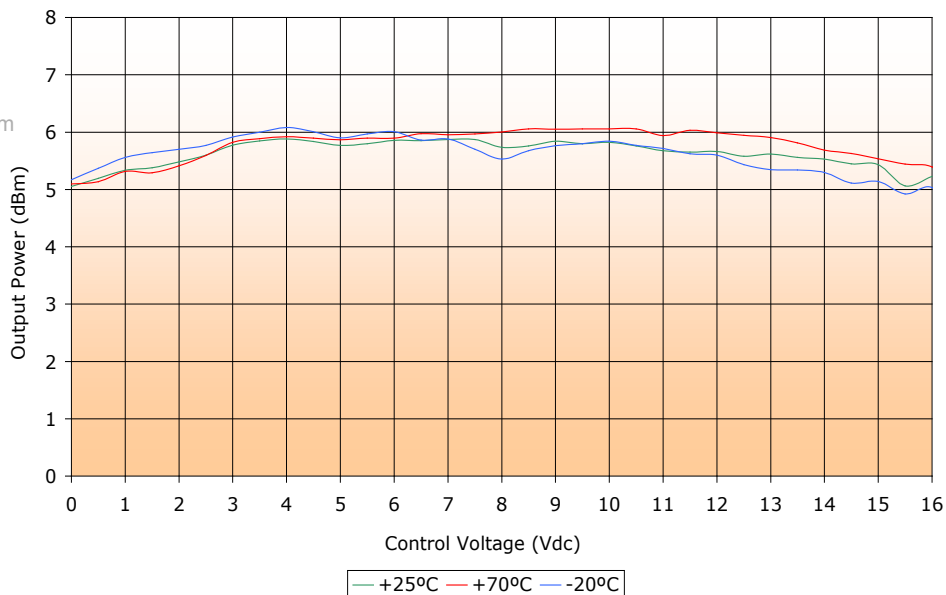
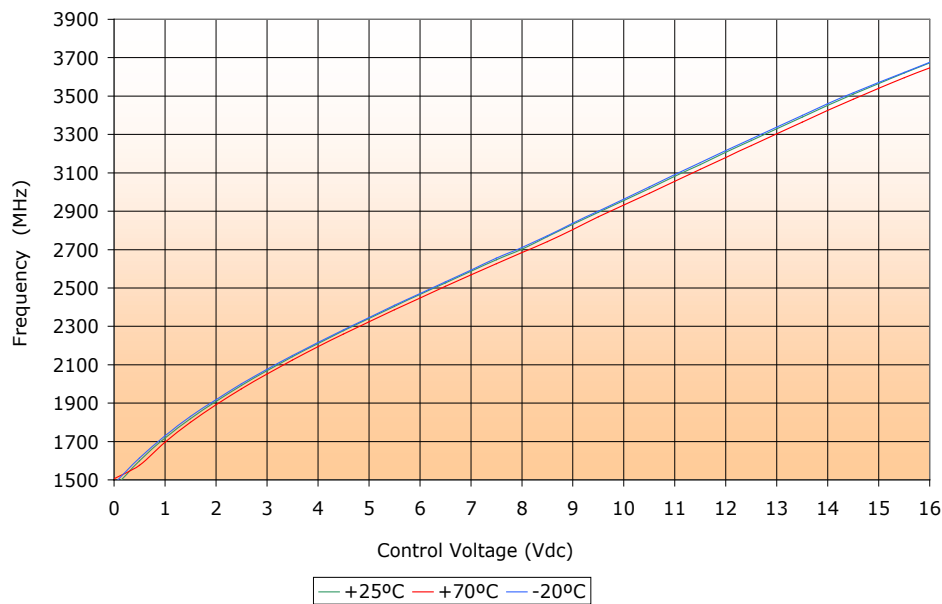
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WIDE BANDWIDTH

1700 - 3450 MHz

PERFORMANCE PLOTS



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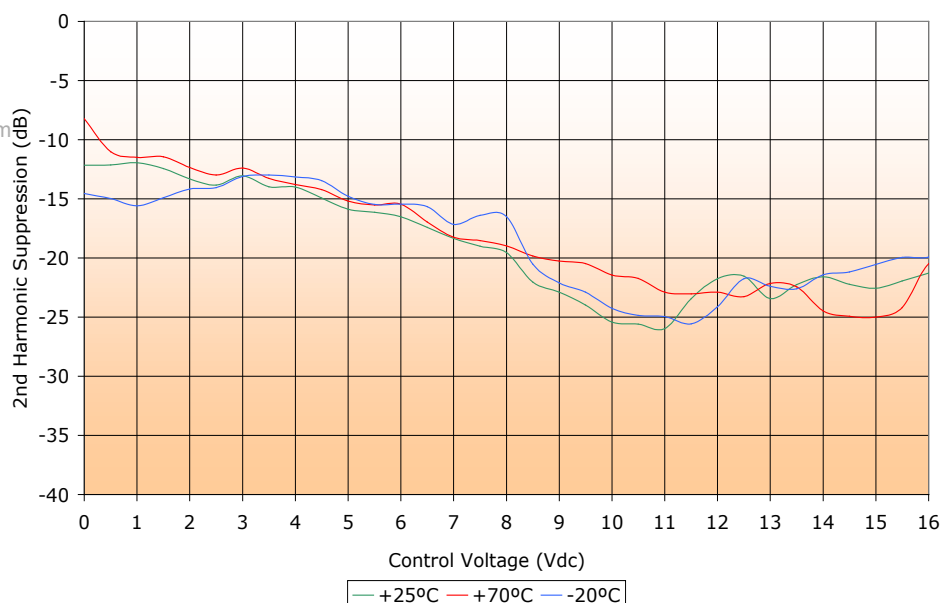
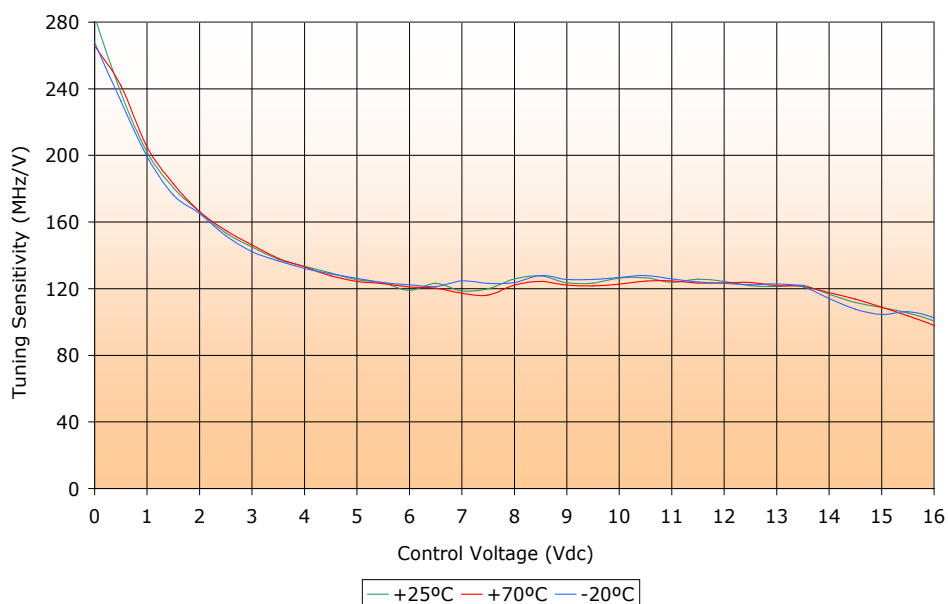
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