

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO190410-5

WIDE BANDWIDTH

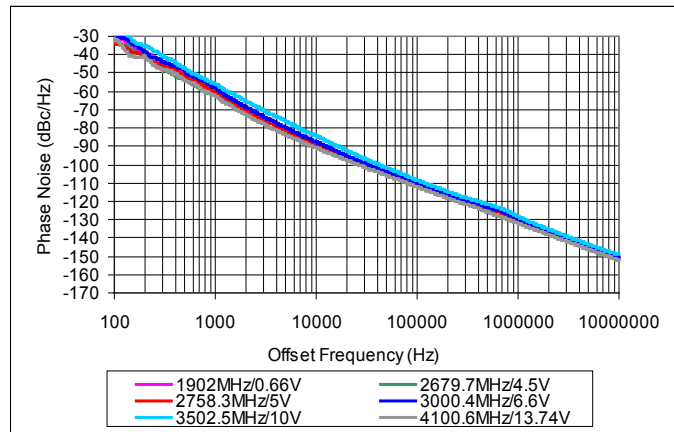
1900 - 4100 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. K 10/09/07)

Frequency	1900 - 4100 MHz
Tuning Voltage (Full Band)	0.5 - 16 VDC (Nom.)
Bias Voltage	+5 VDC @ 50 mA (Max.)
Output Power	+2 dBm (Min.)
Tuning Sensitivity	100 - 200 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	10 dBc (Typ.)
Frequency Pulling	4 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	4 MHz/V (Typ.)
Tuning Port Capacitance	74 pF (Typ.)
Phase Noise @ 10 kHz	-90 dBc/Hz (Typ.)
Operating Temperature Range	-20 to +70 °C

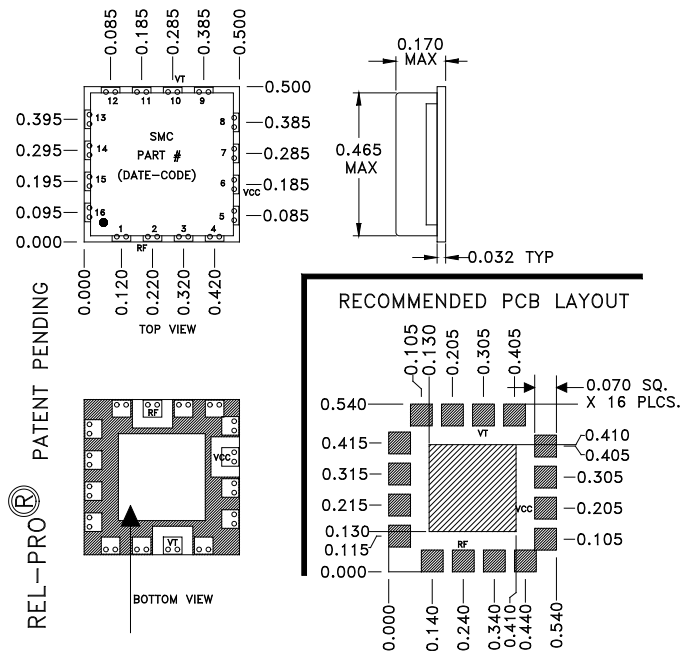
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0	1900 (Max)
5	2500 (Min)
8	2950 (Min)
12	3600 (Min)
16	4100 (Min)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+16.25 V
DC Voltage Applied to RF Out	± 25 V

Package # 278LF



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT DIMENSIONS ARE IN INCHES.
 TOLERANCES ON THREE DECIMAL PLACES= ± 0.015 ALL UNLABELED PINS TO BE GROUNDED.
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

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; 60/5663481; 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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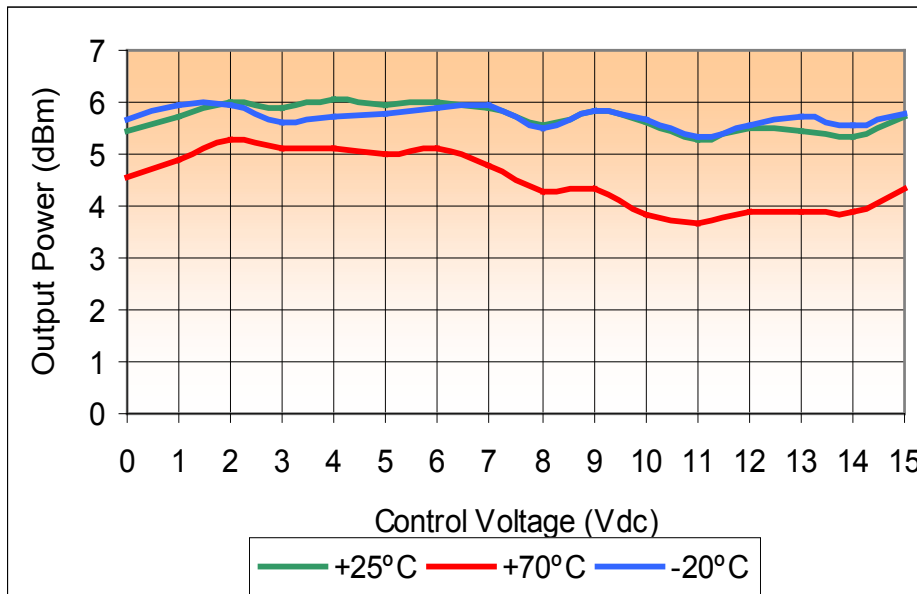
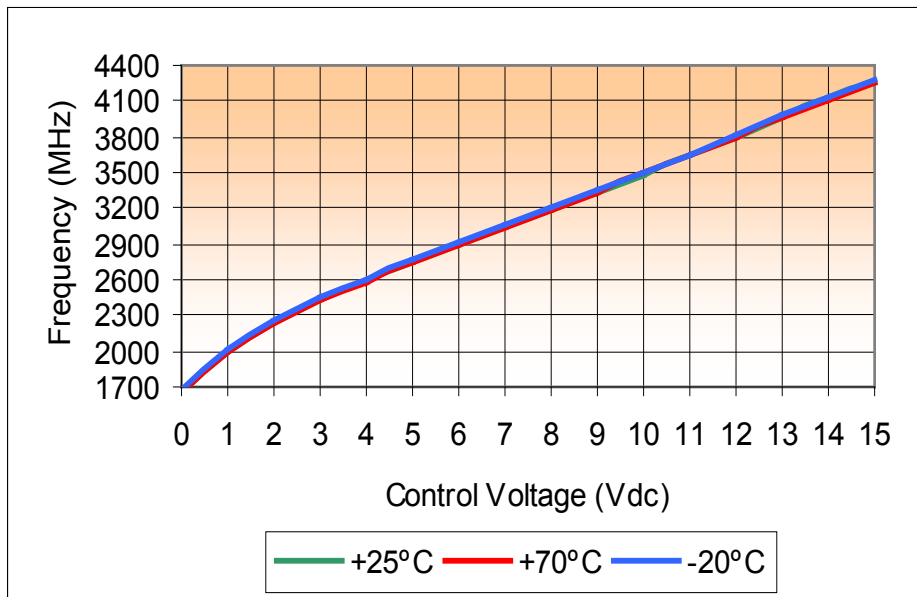
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WIDE BANDWIDTH

1900 - 4100 MHz

PERFORMANCE PLOTS



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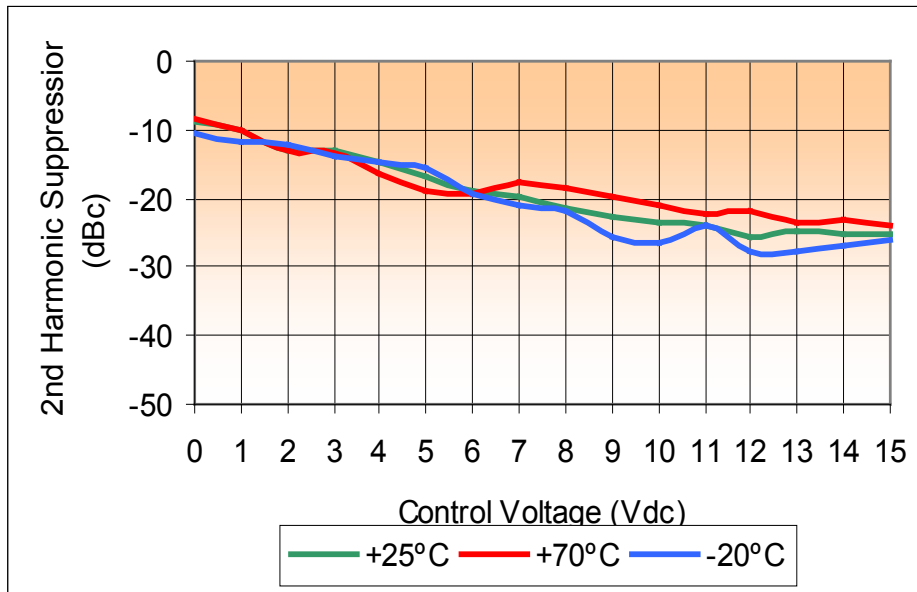
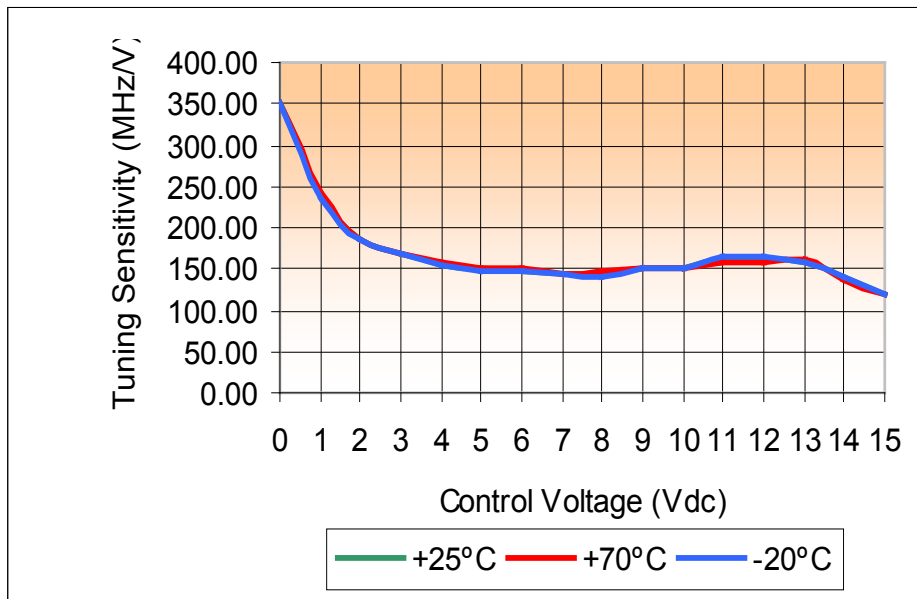


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCMO190410-5

WIDE BANDWIDTH

1900 - 4100 MHz

PERFORMANCE PLOTS



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