

VOLTAGE CONTROLLED OSCILLATOR

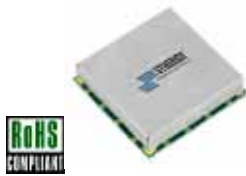
SURFACE MOUNT MODEL: DCMO267535-5

WIDE BANDWIDTH

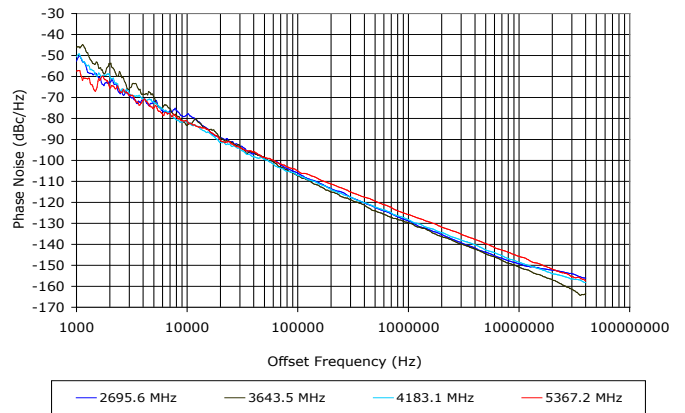
2675 - 5375 MHz

FEATURES:

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



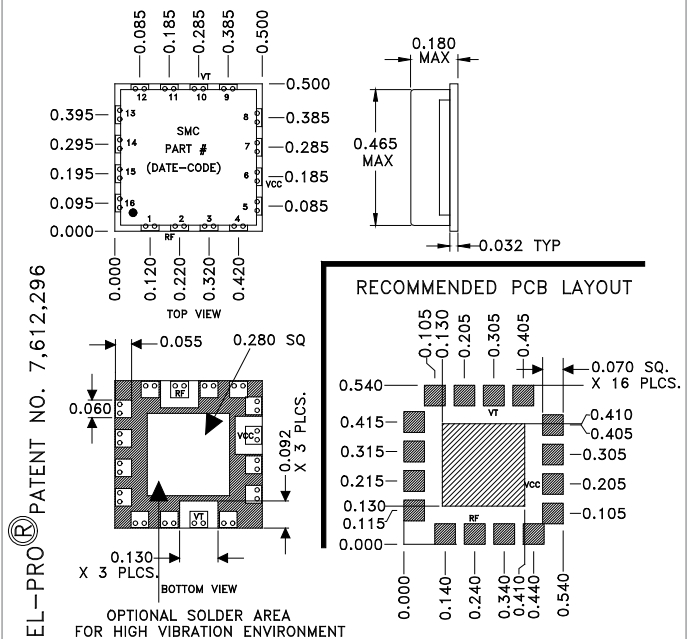
Phase Noise



SPECIFICATIONS (Rev. A 02/10/10)

Frequency	2675 - 5375 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 52 mA (Max.)
Output Power	0 dBm (Min.)
Tuning Sensitivity	75 - 450 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	16 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	8 MHz/V (Typ.)
Tuning Port Capacitance	30 pF (Typ.)
Phase Noise @ 10 kHz	-81 dBc/Hz (Typ.)
Operating Temperature Range	0 to +70 °C

Package # 278LF



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	2675 (Max.)
5	3300 (Min.)
8	3900 (Min.)
12	4300 (Min.)
15	4600 (Min.)
18	4900 (Min.)
24	5375 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+28 V
DC Voltage Applied to RF Out	± 25 V

*For extended temperature range contact factory.

DIMENSIONS ARE IN INCHES.
 TOLERANCES ON THREE DECIMAL PLACES= ± 0.015
 ALL UNLABELED PINS TO BE GROUNDING.
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

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; 5,660,754; 5,805,431; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,533,623 | Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601623; 60/605791; EV/1369634; 11/29766; 60/622485 & 60/710310; 10/3752560/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751



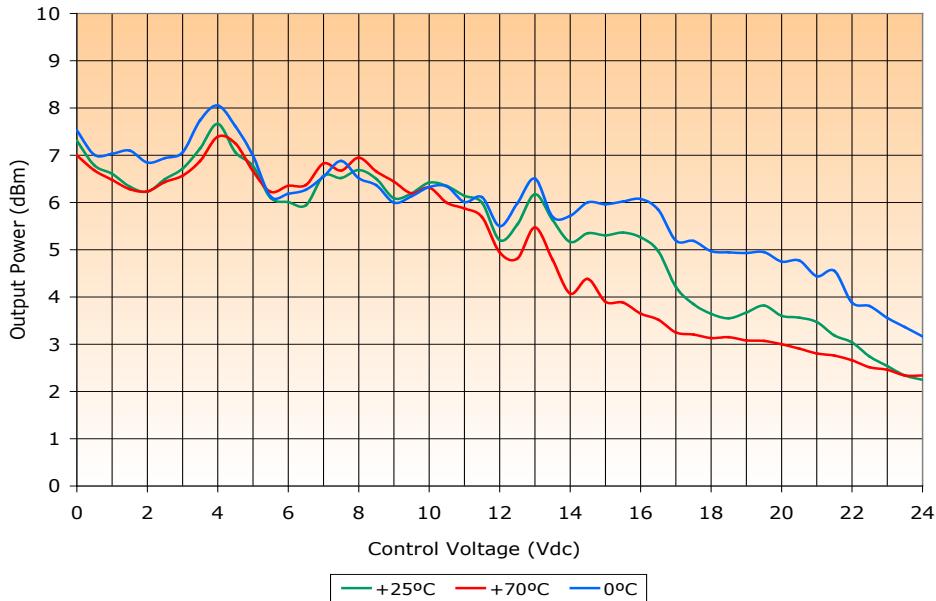
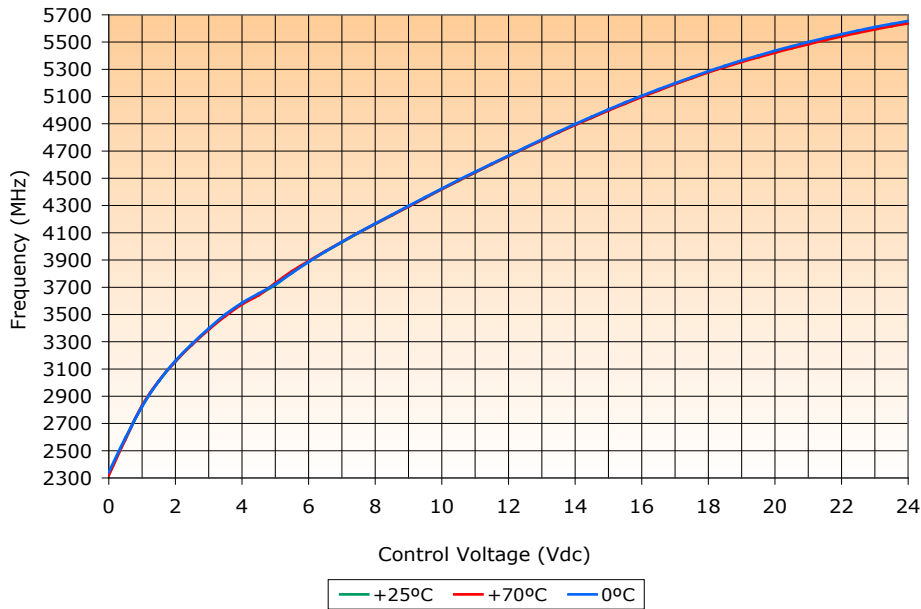
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PERFORMANCE PLOTS



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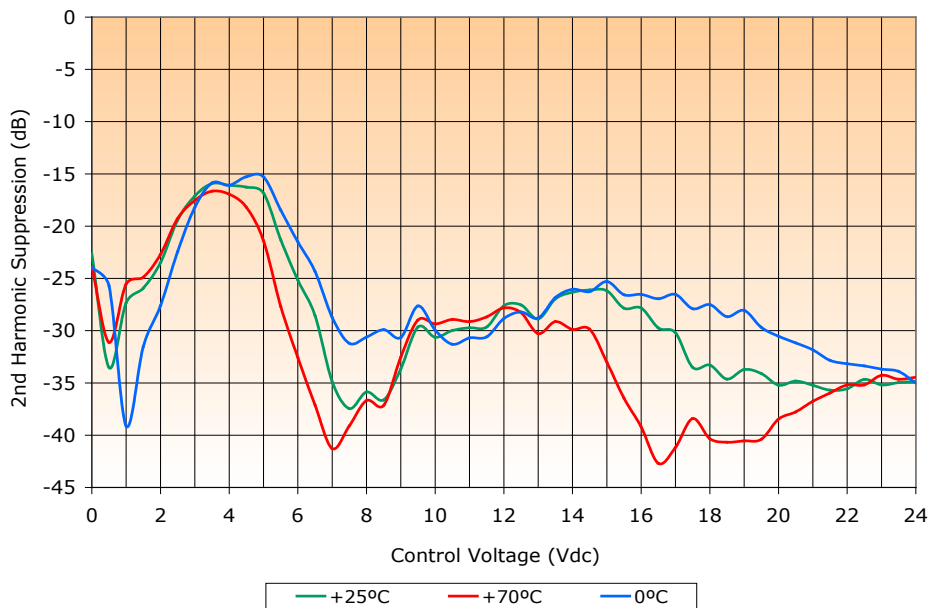
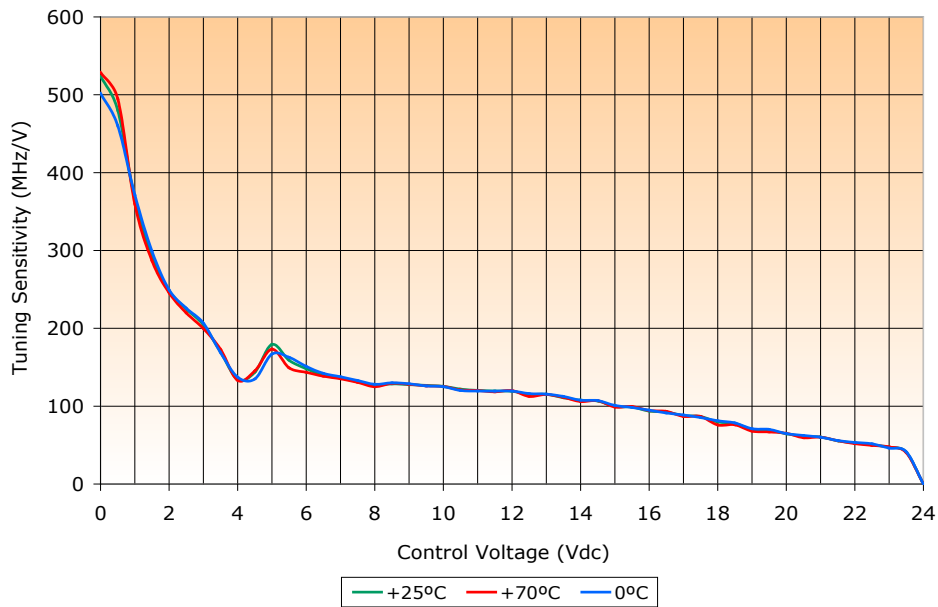
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