

# VOLTAGE CONTROLLED OSCILLATOR

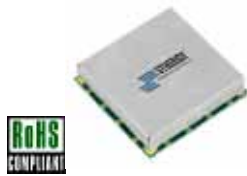
## SURFACE MOUNT MODEL: DCMO267535-5

**WIDE BANDWIDTH**

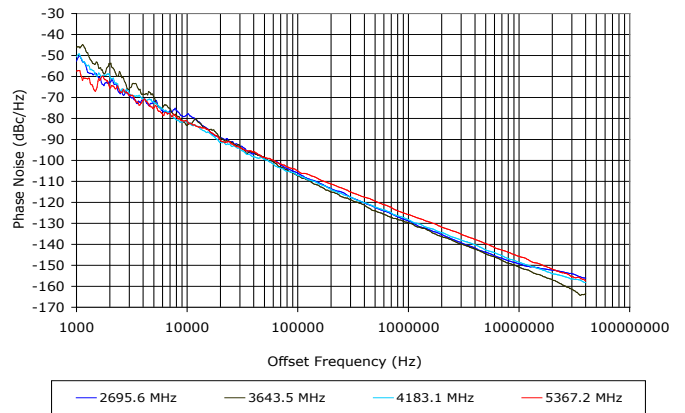
**2675 - 5375 MHz**

**FEATURES:**

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



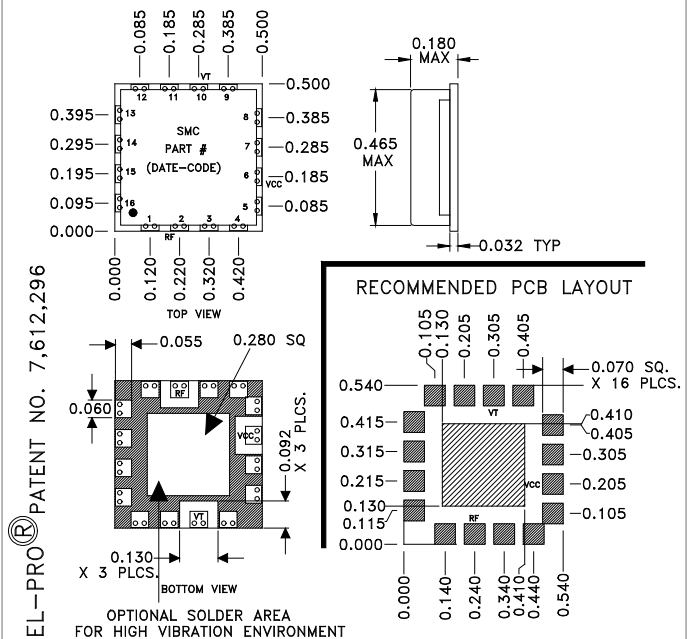
**Phase Noise**



**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



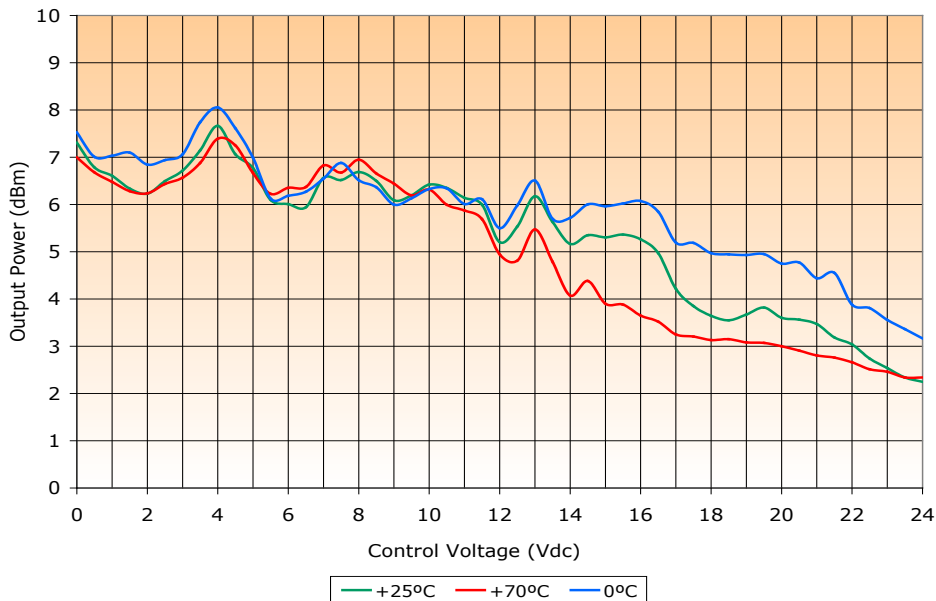
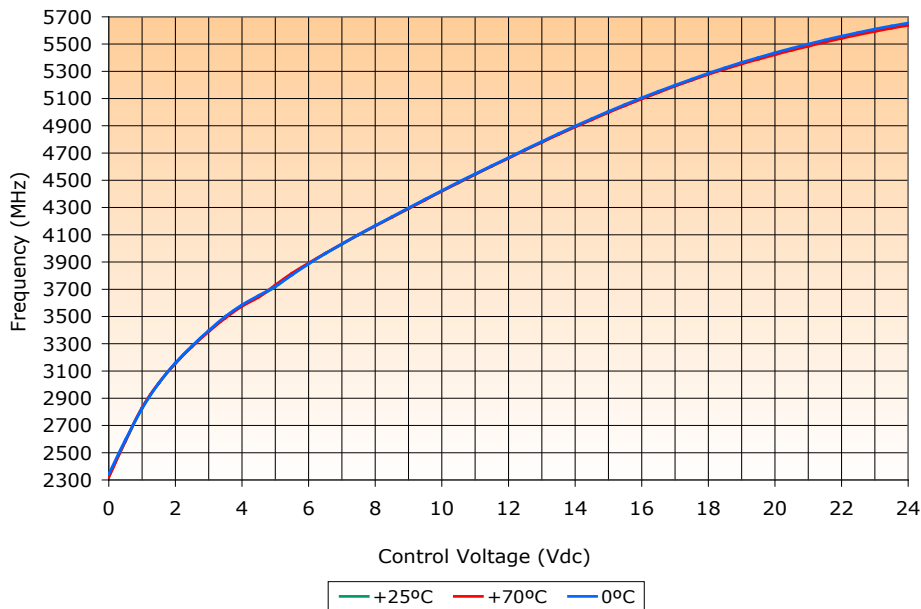
# VOLTAGE CONTROLLED OSCILLATOR

## SURFACE MOUNT MODEL: DCMO267535-5

WIDE BANDWIDTH

2675 - 5375 MHz

PERFORMANCE PLOTS



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; EV31369634; 11/29766; 60/622485 & 60/710310; 10/3752560/738901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,963,174; 7,580,693; 7,612,296; 2,524,751

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



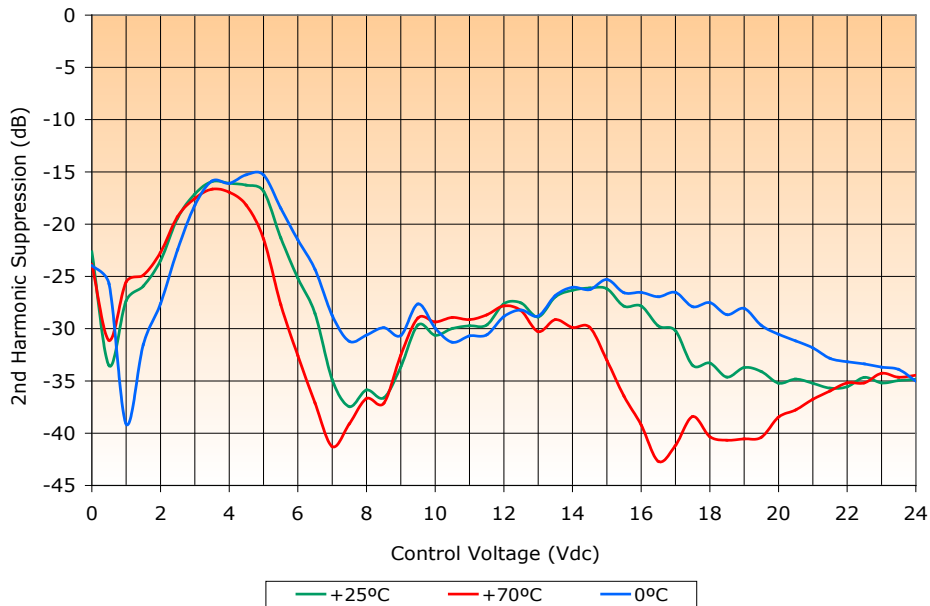
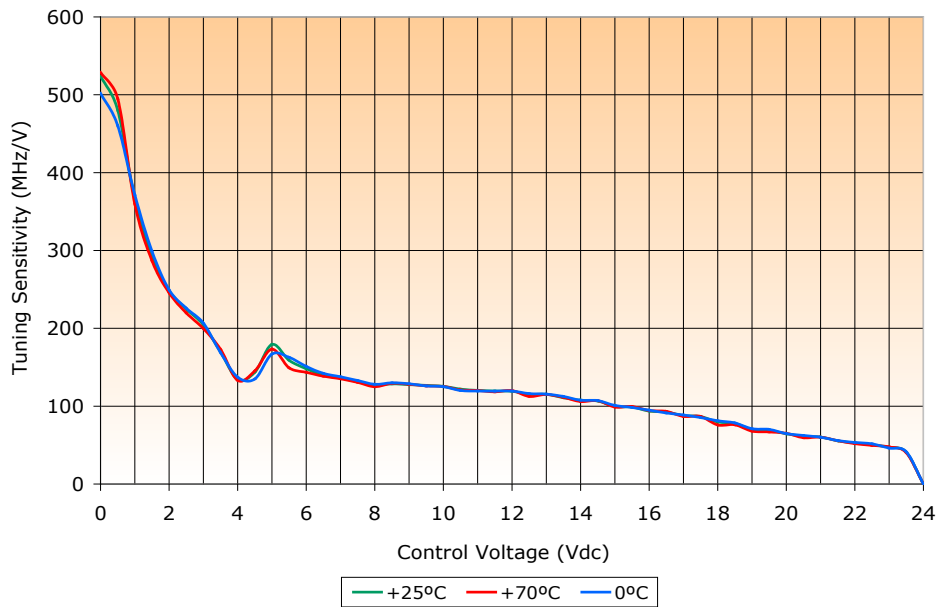
# VOLTAGE CONTROLLED OSCILLATOR

## SURFACE MOUNT MODEL: DCMO267535-5

WIDE BANDWIDTH

2675 - 5375 MHz

PERFORMANCE PLOTS



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; EV31369634; 11/29766; 60/622485 & 60/710310; 10/375256/07/38901; 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

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

