

VOLTAGE CONTROLLED OSCILLATOR

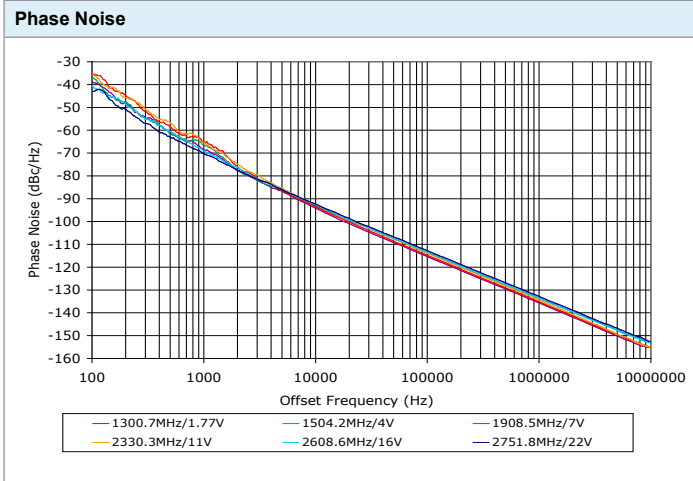
SURFACE MOUNT MODEL: DCMO130275-5

WIDE BANDWIDTH

1300 - 2750 MHz

FEATURES:

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



SPECIFICATIONS (Rev. C 09/10/08)

Frequency	1300 - 2750 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 30 mA (Max.)
Output Power	+3 dBm (Min.)
Tuning Sensitivity	20 - 150 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	10 dB (Typ.)
Frequency Pulling	4 MHz (Max. @ 1.75:1 VSWR)
Frequency Pushing	4 MHz/V (Max.)
Tuning Port Capacitance	150 pF (Typ.)
Phase Noise @ 10 kHz	-93 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	1300 (Max.)
5	1490 (Min.)
8	1935 (Min.)
12	2300 (Min.)
15	2490 (Min.)
18	2590 (Min.)
22	2700 (Min.)
24	2750 (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

Package # 278LF

RECOMMENDED PCB LAYOUT

OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT DIMENSIONS ARE IN INCHES.
 TOLERANCES ON THREE ALL UNLABELED PINS
 DECIMAL PLACES= ± 0.015 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; 7,292,113
 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



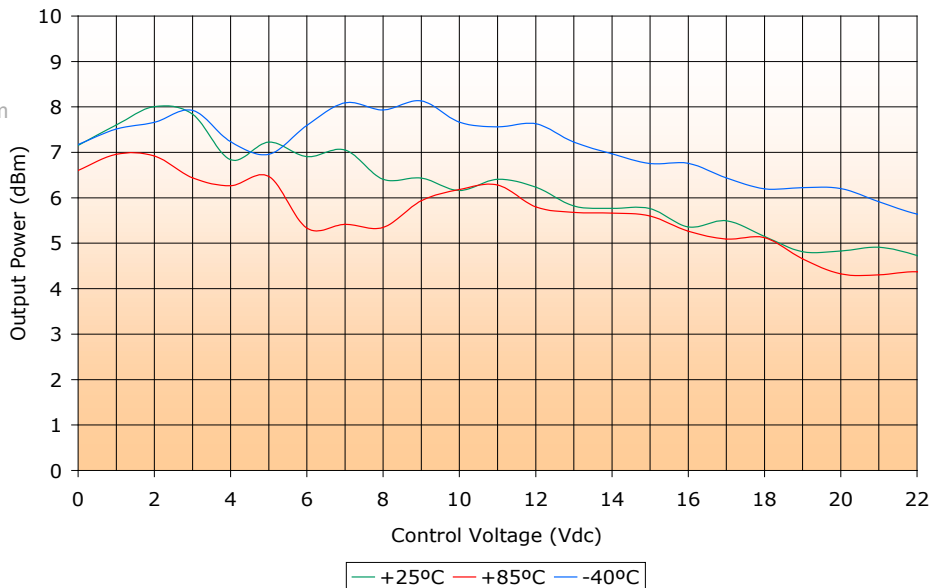
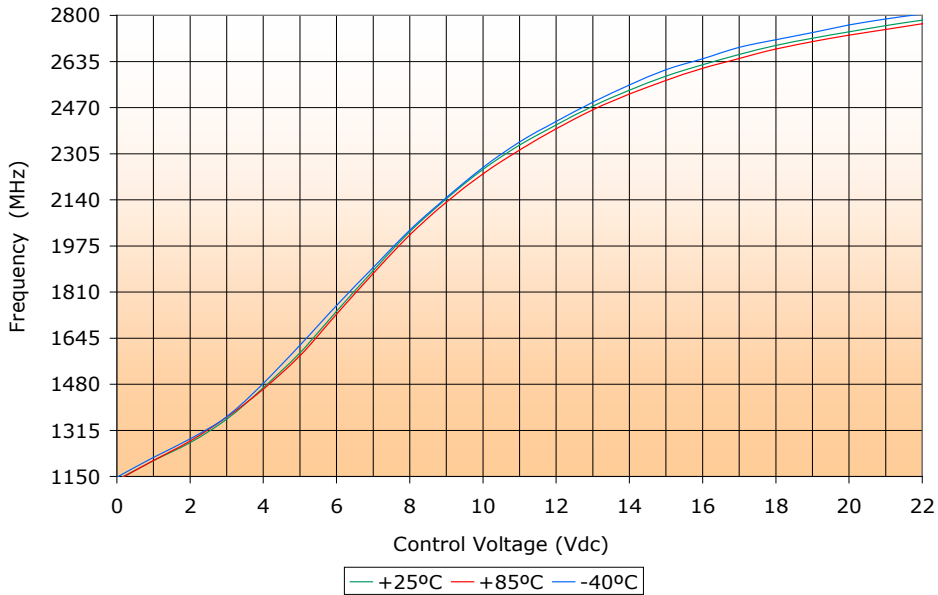
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO130275-5

WIDE BANDWIDTH

1300 - 2750 MHz

PERFORMANCE PLOTS



www.DataSheet4U.com

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; 7,292,113
 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

Copyright © 2008 Synergy Microwave Corporation
 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



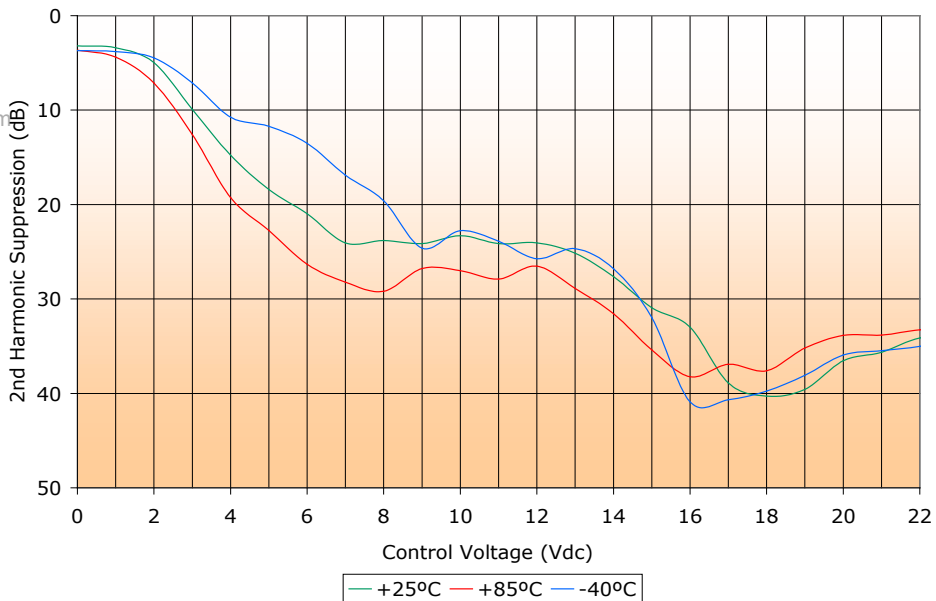
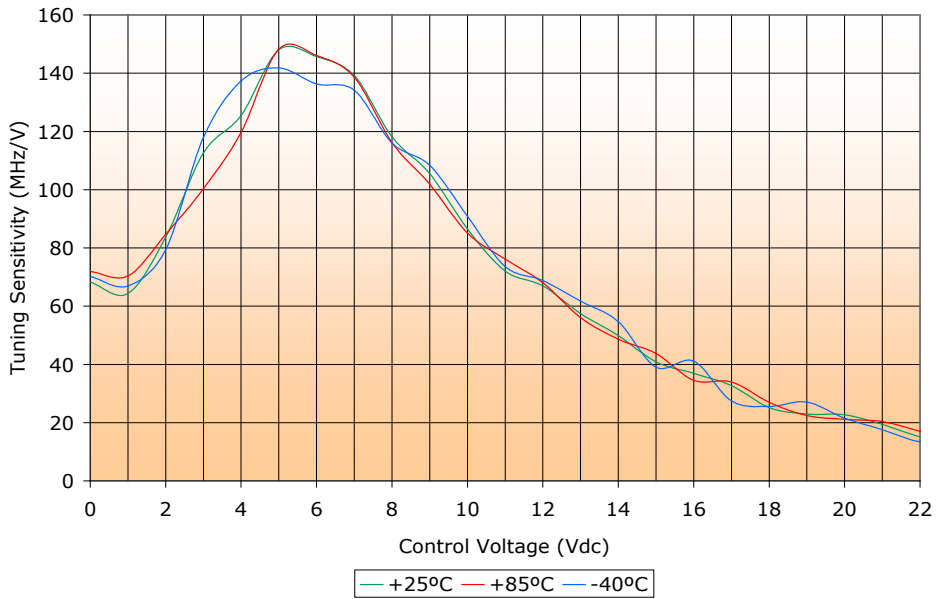
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO130275-5

WIDE BANDWIDTH

1300 - 2750 MHz

PERFORMANCE PLOTS



www.DataSheet4U.com

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; 7,292,113
 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

Copyright © 2008 Synergy Microwave Corporation
 201 McLean Boulevard • Paterson, New Jersey 07504 • Tel: (973) 881-8800 • Fax: (973) 881-8361
 E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com

