

VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCMO50120-12

WIDE BANDWIDTH

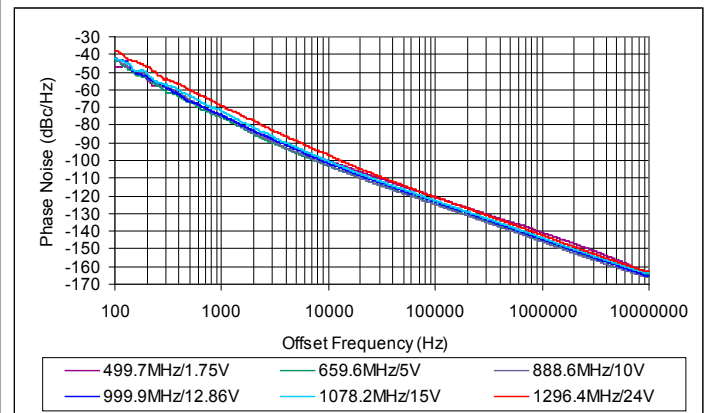
500 - 1200 MHz

FEATURES:

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



Phase Noise



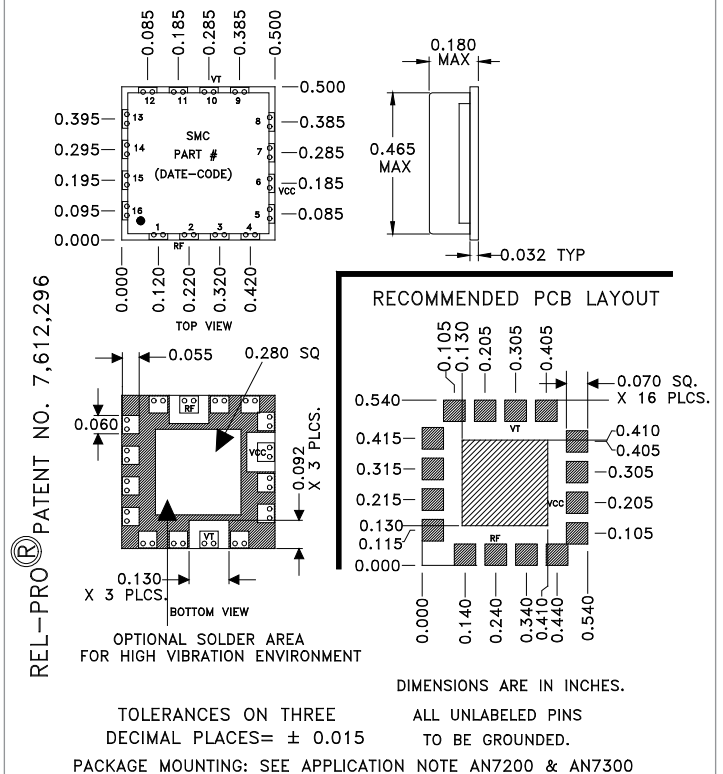
SPECIFICATIONS (Rev. B 07/03/07)

Frequency	500 - 1200 MHz
Tuning Voltage (Full Band)	0.5 - 24 VDC
Bias Voltage	+12 VDC @ 35 mA (Max.)
Output Power	+6 dBm (Min.)
Tuning Sensitivity	20 - 50 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	10 dBc (Typ.)
Frequency Pulling	5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	5 MHz/V (Typ.)
Phase Noise @ 10 kHz	-103 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	500 (Max)
5	590 (Min)
8	720 (Min)
12	875 (Min)
15	1000 (Min)
18	1100 (Min)
24	1200 (Min)

Package # 278LF



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; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,363,174; 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

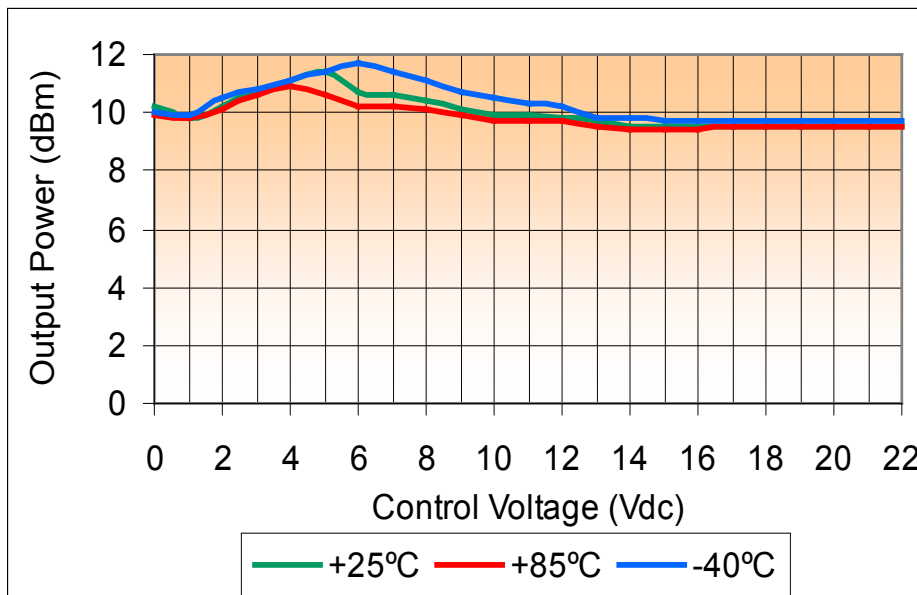
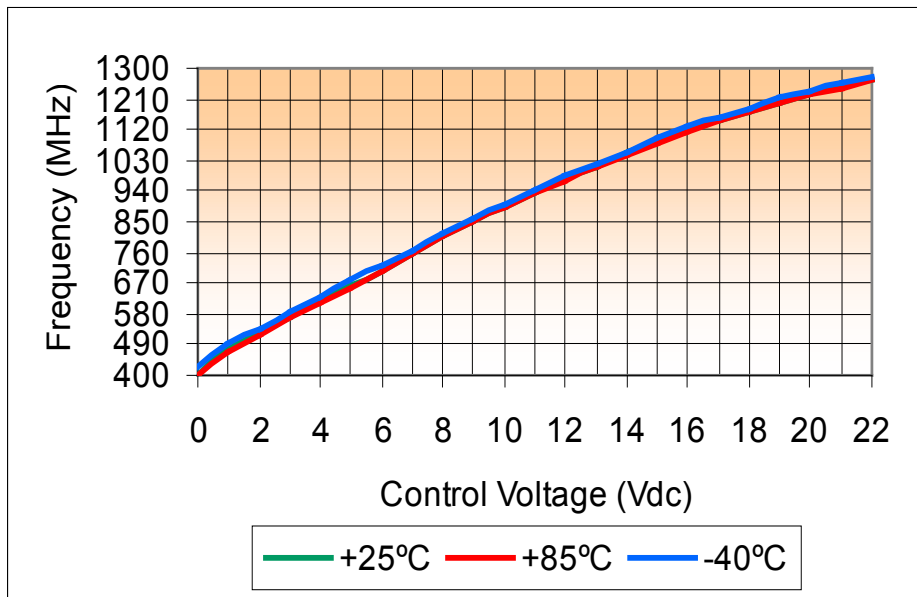
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO50120-12

WIDE BANDWIDTH

500 - 1200 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; 11/259766; 60/622485 & 60/710310; 10/337525/60/736901; 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

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



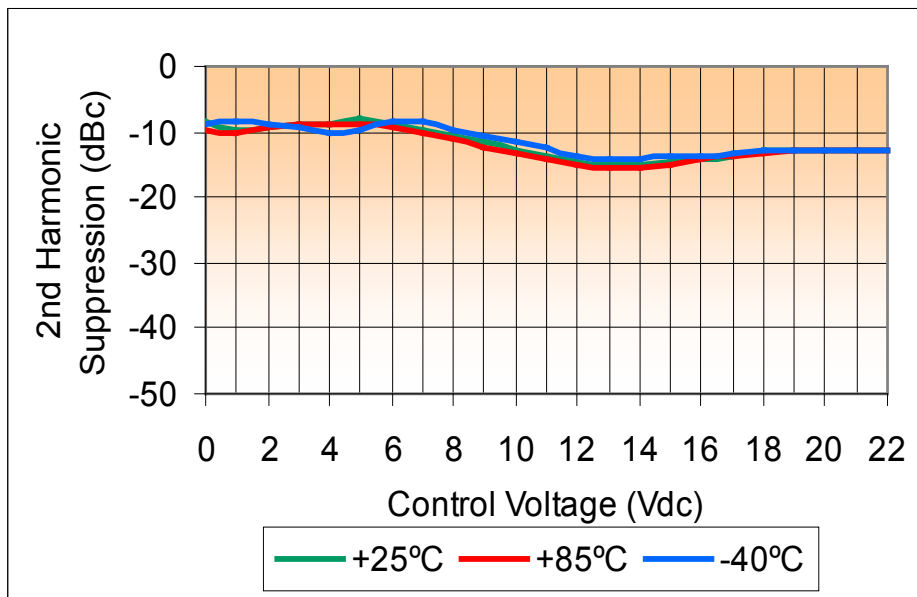
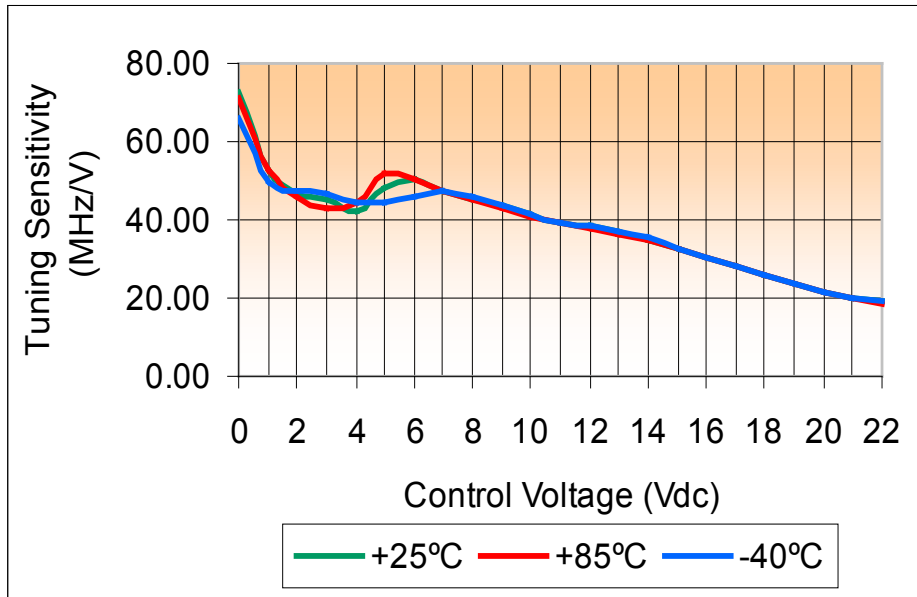
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO50120-12

WIDE BANDWIDTH

500 - 1200 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; 11/291766; 60/622485 & 60/710310; 10/337525/60/736901; 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