

VOLTAGE CONTROLLED OSCILLATOR

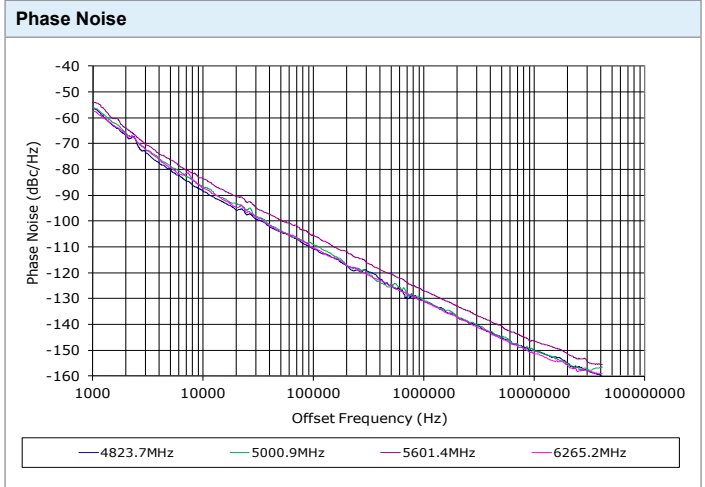
SURFACE MOUNT MODEL: DCRO500620-5

OPTIMIZED BANDWIDTH

5000 - 6200 MHz

FEATURES:

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



SPECIFICATIONS (Rev. F 09/02/14)

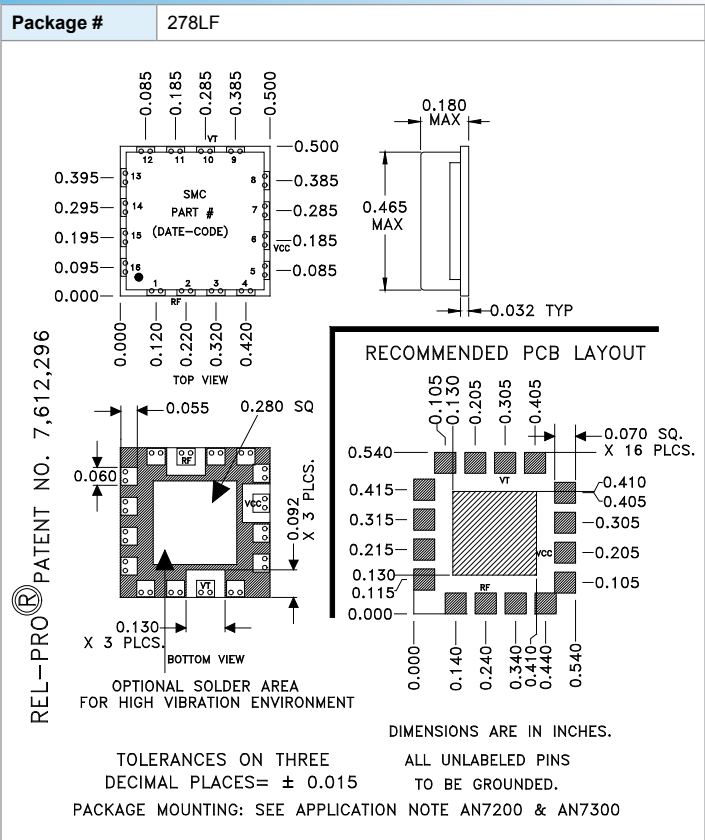
Frequency	5000 - 6200 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 42 mA (Max.)
Output Power	0 dBm (Min.)
Tuning Sensitivity	50 - 95 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	25 dB (Typ.)
Frequency Pulling	20 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	10 MHz/V (Typ.)
Tuning Port Capacitance	30 pF (Typ.)
Phase Noise @ 10 kHz	-86 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	5000 (Max.)
8	5250 (Min.)
12	5585 (Min.)
15	5800 (Min.)
20	6200 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+30 V
DC Voltage Applied to RF Out	± 25 V



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 • Website: http://www.synergymwave.com
 Patents : http://www.synergymwave.com/patents



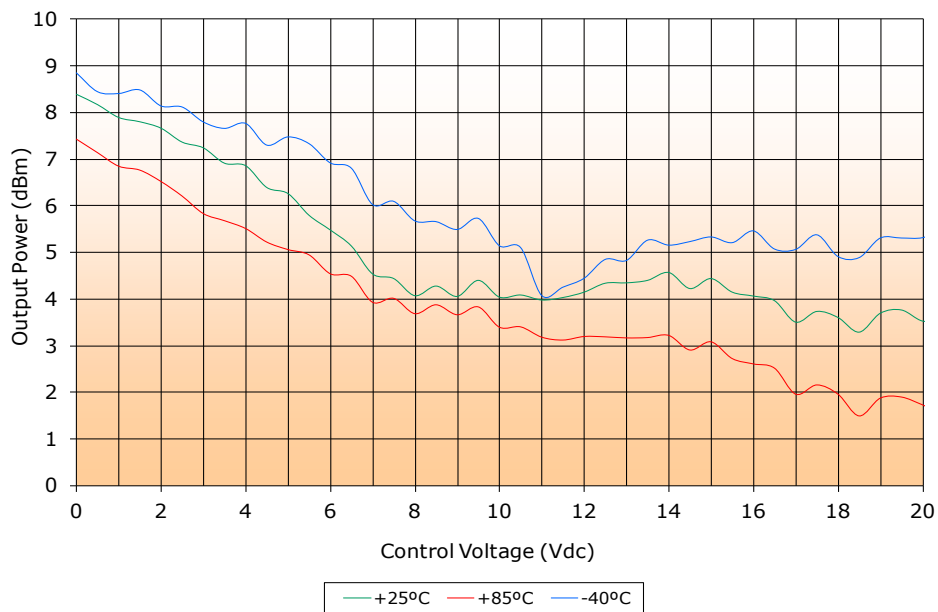
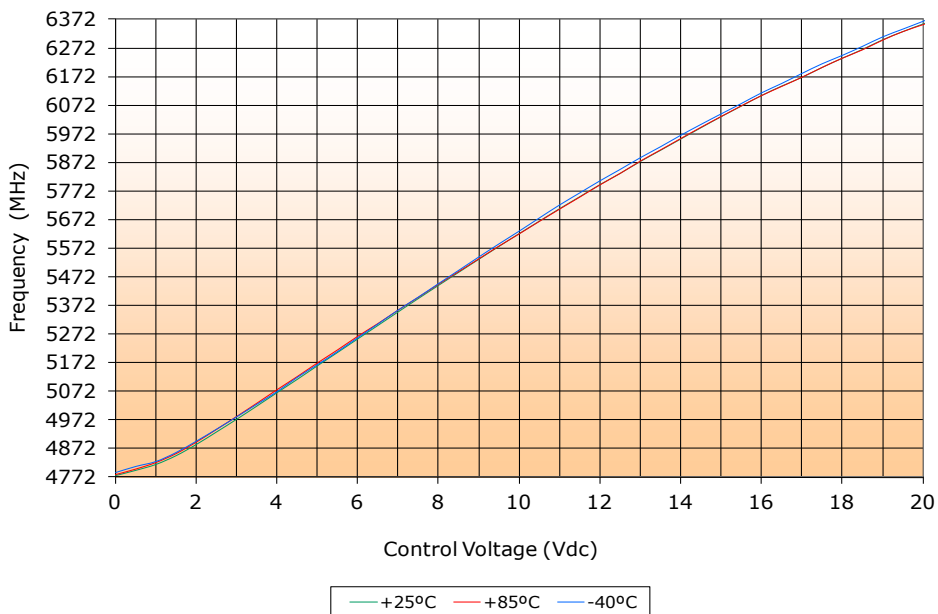
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO500620-5

OPTIMIZED BANDWIDTH

5000 - 6200 MHz

PERFORMANCE PLOTS



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 • Website: <http://www.synergymwave.com>
Patents : <http://www.synergymwave.com/patents>



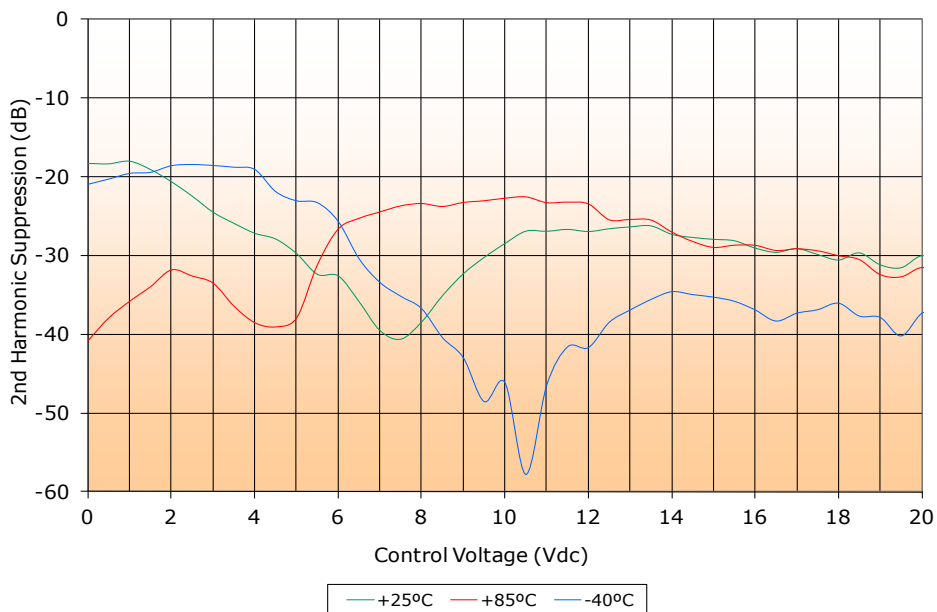
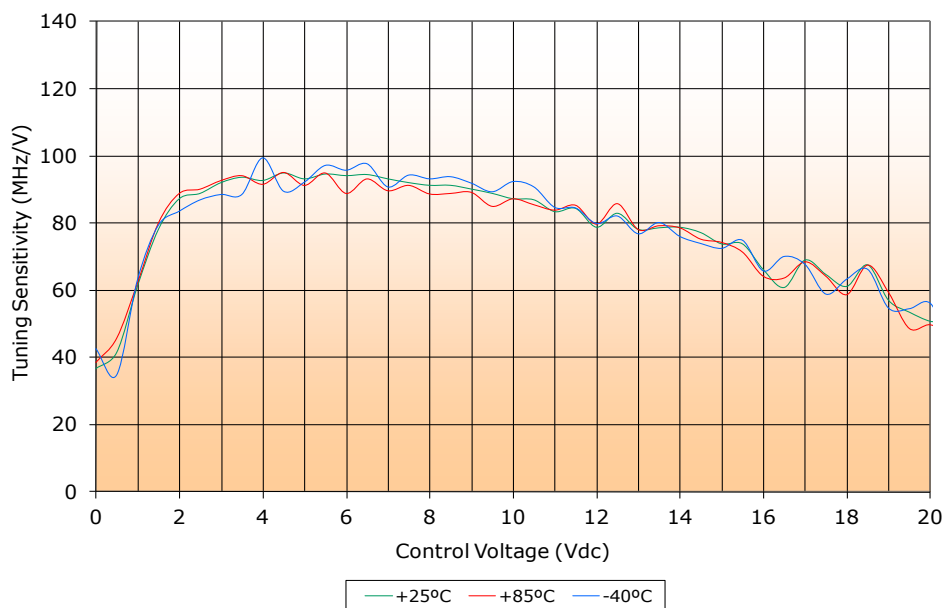
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO500620-5

OPTIMIZED BANDWIDTH

5000 - 6200 MHz

PERFORMANCE PLOTS



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 • Website: <http://www.synergymwave.com>
Patents : <http://www.synergymwave.com/patents>

