

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO285345-5

OPTIMIZED BANDWIDTH

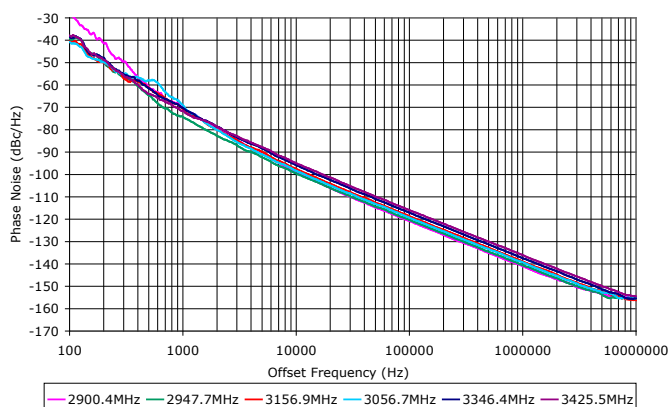
2850 - 3450 MHz

FEATURES:

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



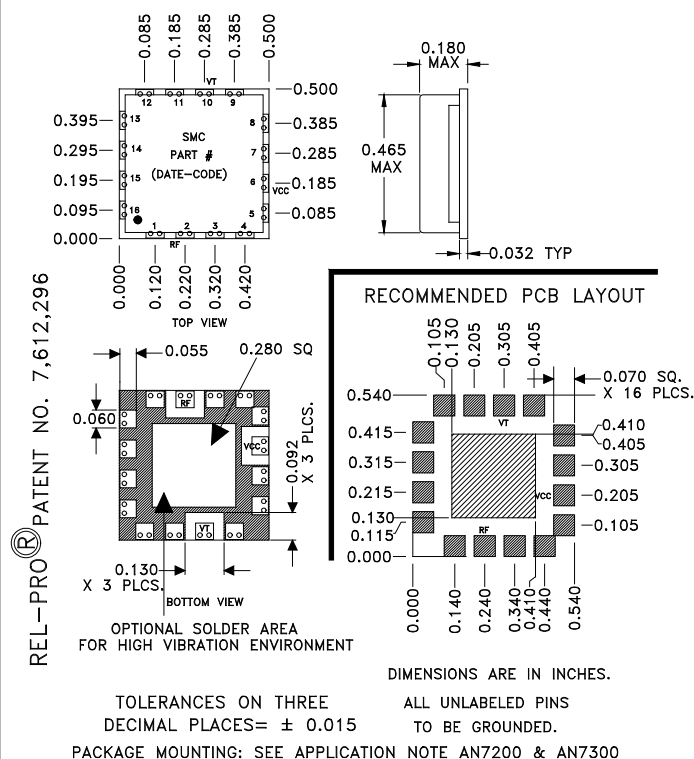
Phase Noise



SPECIFICATIONS (Rev. E 09/02/14)

Frequency	2850 - 3450 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 22 mA (Max.)
Output Power	+5 dBm (Min.)
Tuning Sensitivity	16 - 45 MHz/V (Typ)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	7 MHz/V (Typ.)
Tuning Port Capacitance	41 pF (Typ.)
Phase Noise @ 10 kHz	-98 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Package # 278LF



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	2850 (Max)
5	2910 (Min)
8	3000 (Min)
12	3150 (Min)
15	3250 (Min)
18	3350 (Min)
24	3450 (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

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



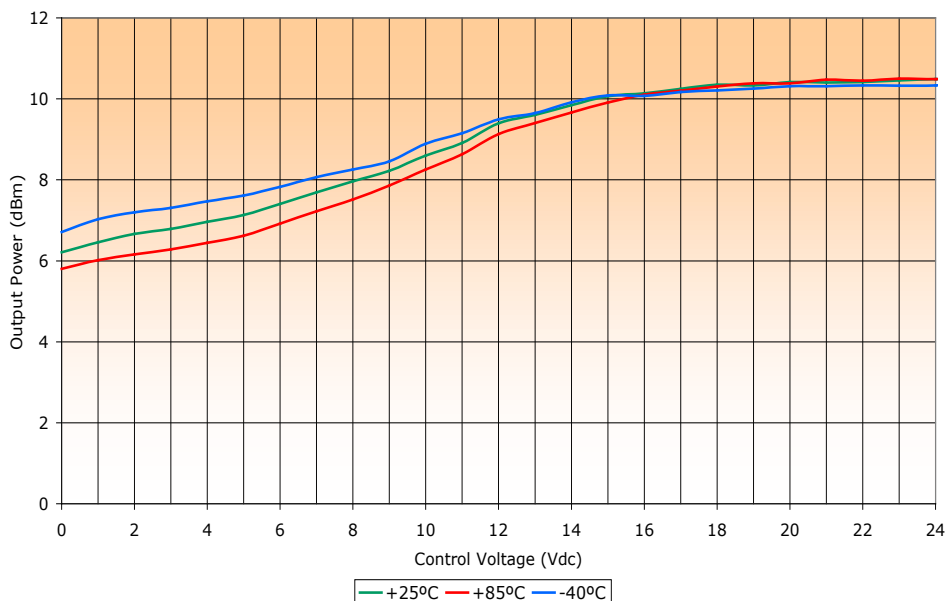
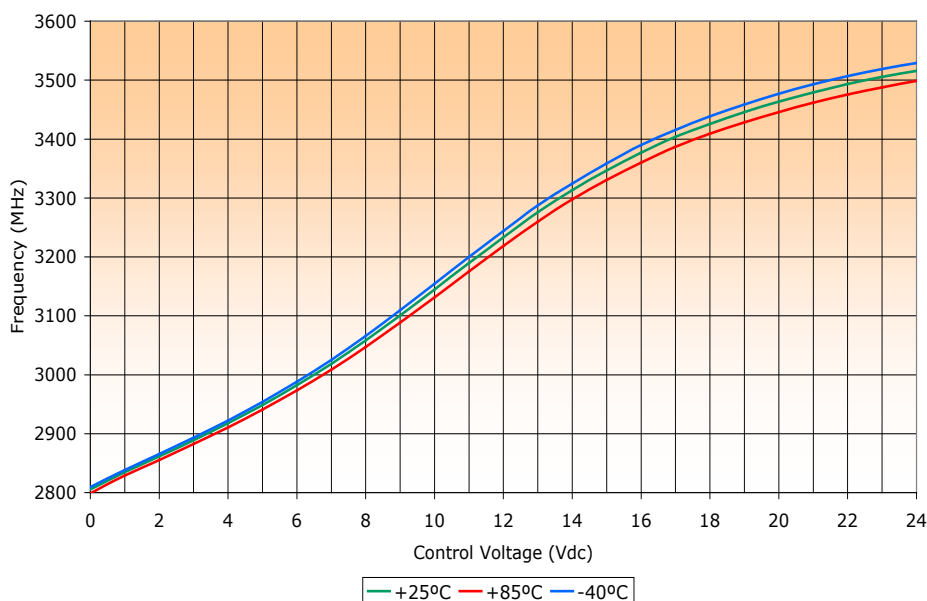
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO285345-5

OPTIMIZED BANDWIDTH

2850 - 3450 MHz

PERFORMANCE PLOTS



VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO285345-5

OPTIMIZED BANDWIDTH

2850 - 3450 MHz

PERFORMANCE PLOTS

