

VOLTAGE CONTROLLED OSCILLATOR

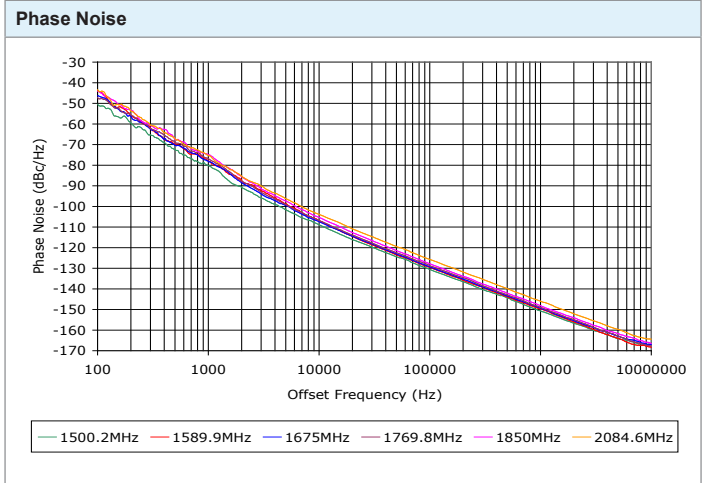
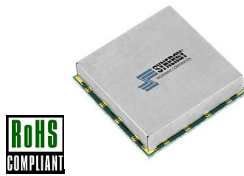
SURFACE MOUNT MODEL: DCRO153185-10

OPTIMIZED BANDWIDTH

1500 - 2000 MHz

FEATURES:

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



SPECIFICATIONS (Rev. D 07/09/13)

Frequency	1500 - 2000 MHz
Tuning Voltage	See table below.
Bias Voltage	+10 VDC @ 35 mA (Max.)
Output Power	+5 dBm (Min.)
Tuning Sensitivity	23 - 45 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	18 dB (Typ.)
Frequency Pulling	5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	1 MHz/V (Typ.)
Tuning Port Capacitance	56 pF (Typ.)
Phase Noise @ 10 kHz	-107 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

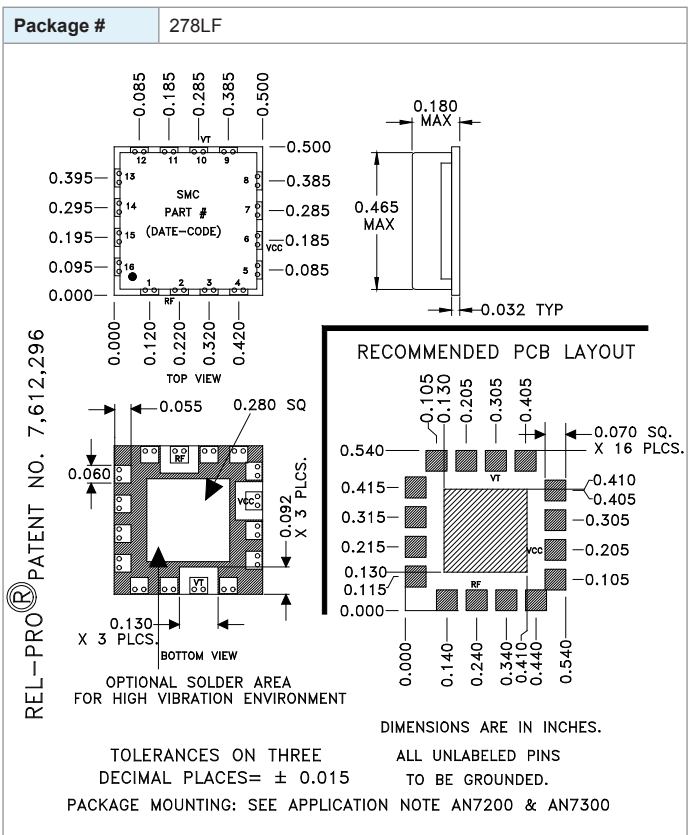
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	1500 (Max.)
5	1560 (Min.)
8	1615 (Min.)
12	1750 (Min.)
15	1850 (Min.)
20	2000 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+10.5 V
Tuning Voltage	+20 V
DC Voltage Applied to RF Out	± 25 V

Patent : <http://www.synergymwave.com/patents>



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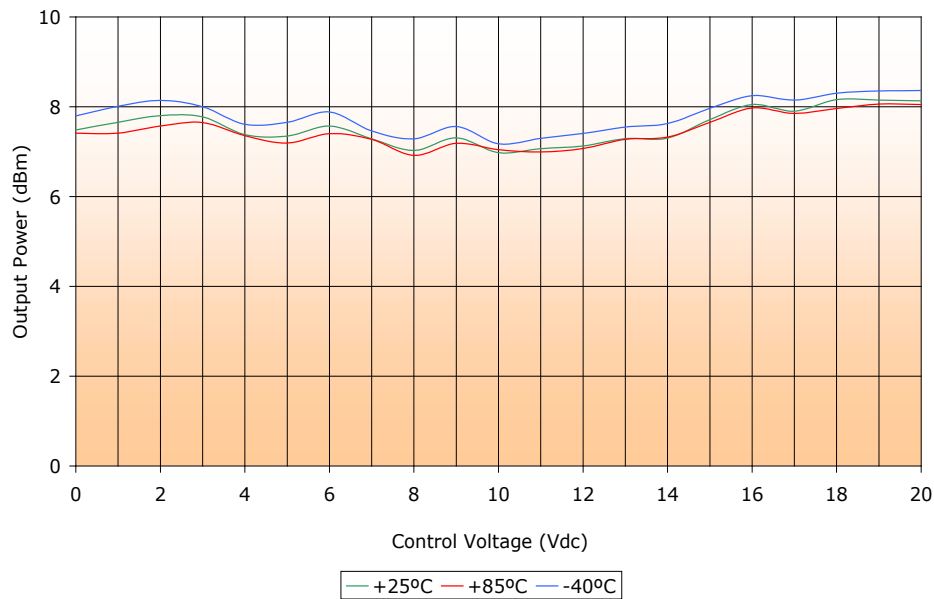
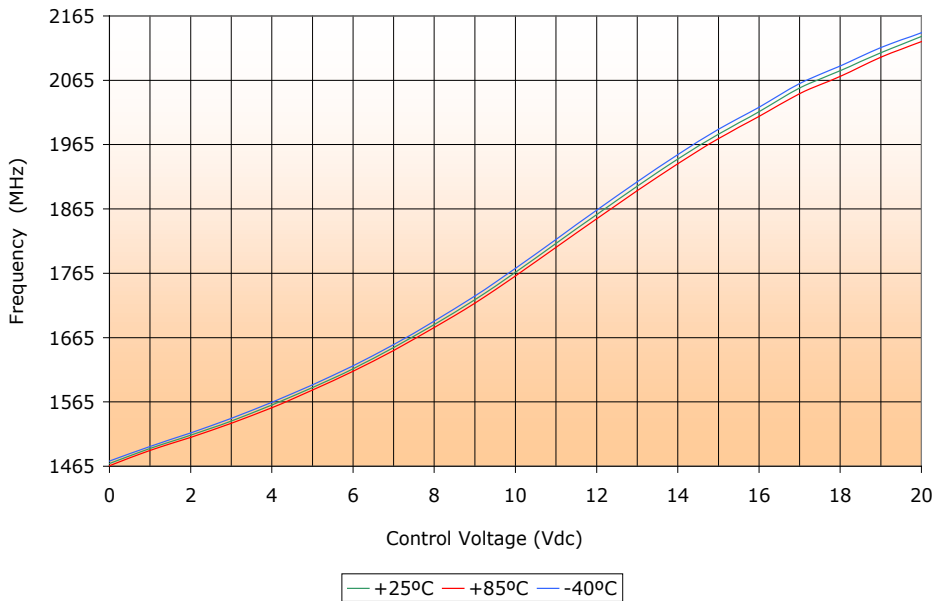
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PERFORMANCE PLOTS



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