

# VOLTAGE CONTROLLED OSCILLATOR

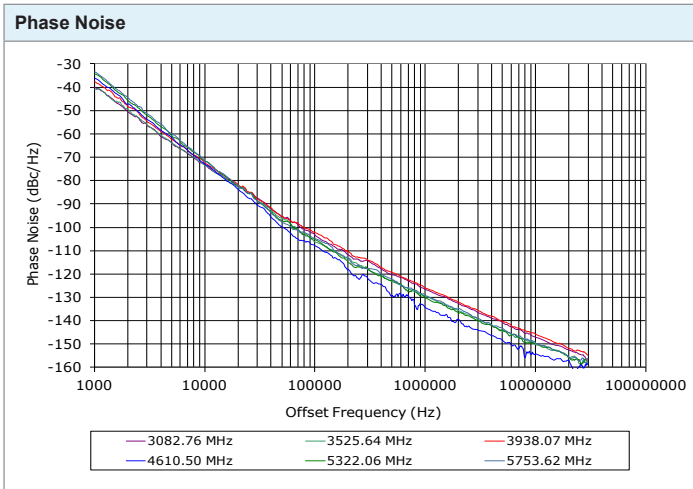
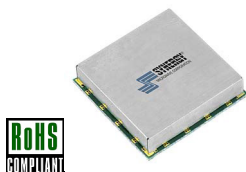
## SURFACE MOUNT MODEL: DCRO316568-5

**OPTIMIZED BANDWIDTH**

**3160 - 5680 MHz**

**FEATURES:**

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



**SPECIFICATIONS (Rev. C 03/03/14)**

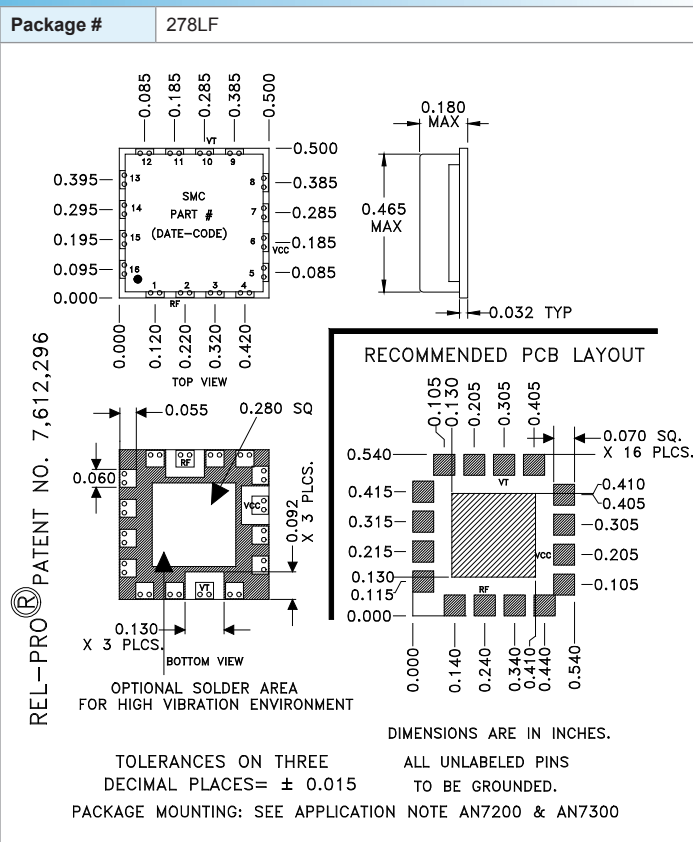
Frequency	3160 - 5680 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 50 mA (Max.)
Output Power	0 dBm (Min.)
Tuning Sensitivity	140 - 475 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	12 dB (Min.) (Test criteria = 15 dB)
Frequency Pulling	16 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	8 MHz/V (Typ.)
Tuning Port Capacitance	30 pF (Typ.)
Phase Noise	-75 dBc/Hz (Typ.) @ 10 kHz -105 dBc/Hz (Typ.) @ 100 kHz
Operating Temperature Range	-40 to +85 °C

**Guaranteed Tuning Specifications**

Tuning Voltage ( V )	Frequency ( MHz )
0.5	3160 (Max)
12	5680 (Min.)

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	±25 V



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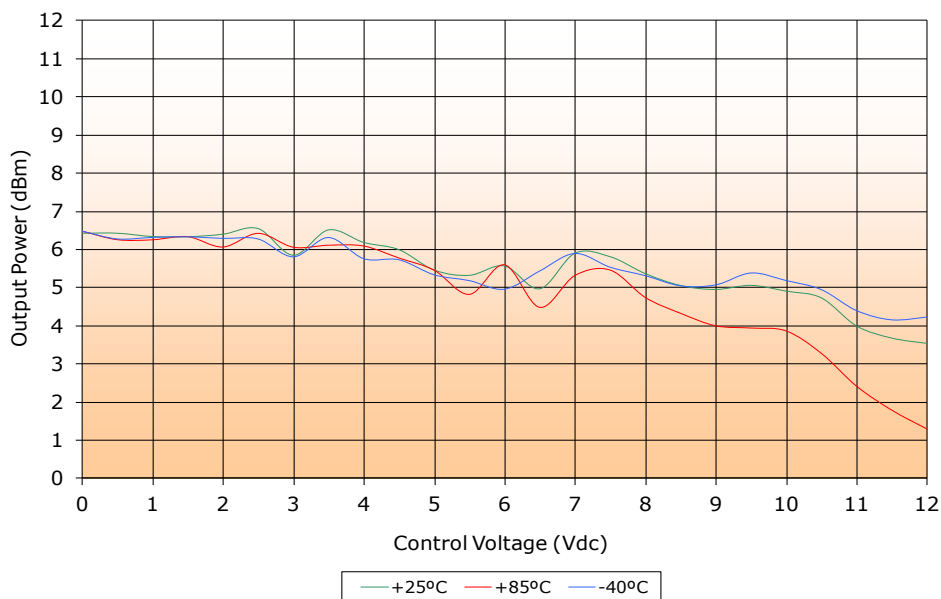
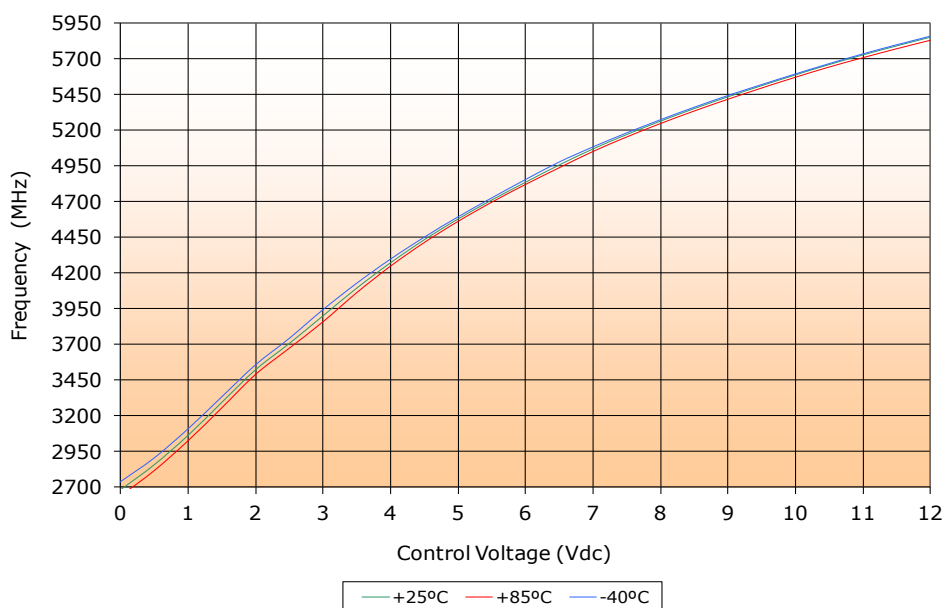
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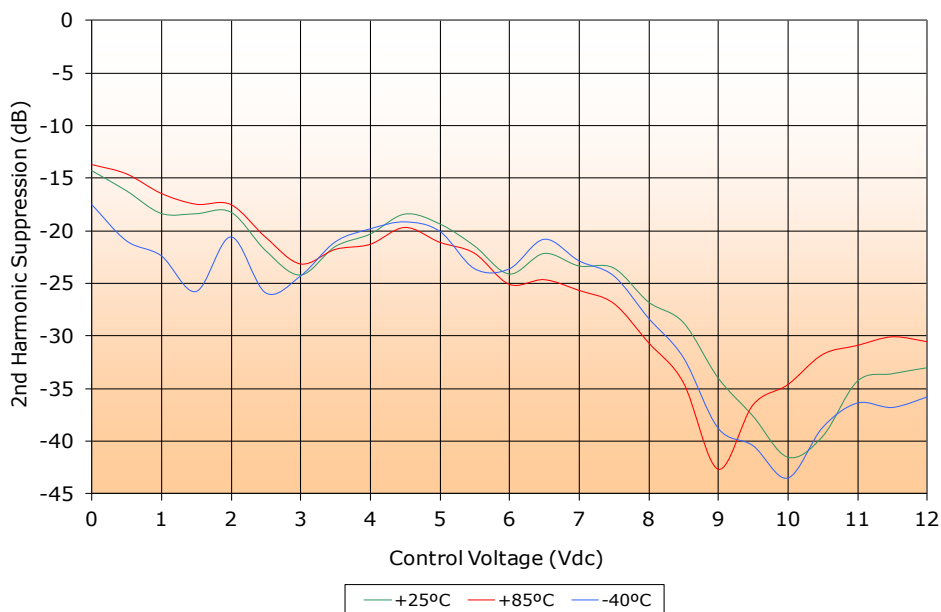
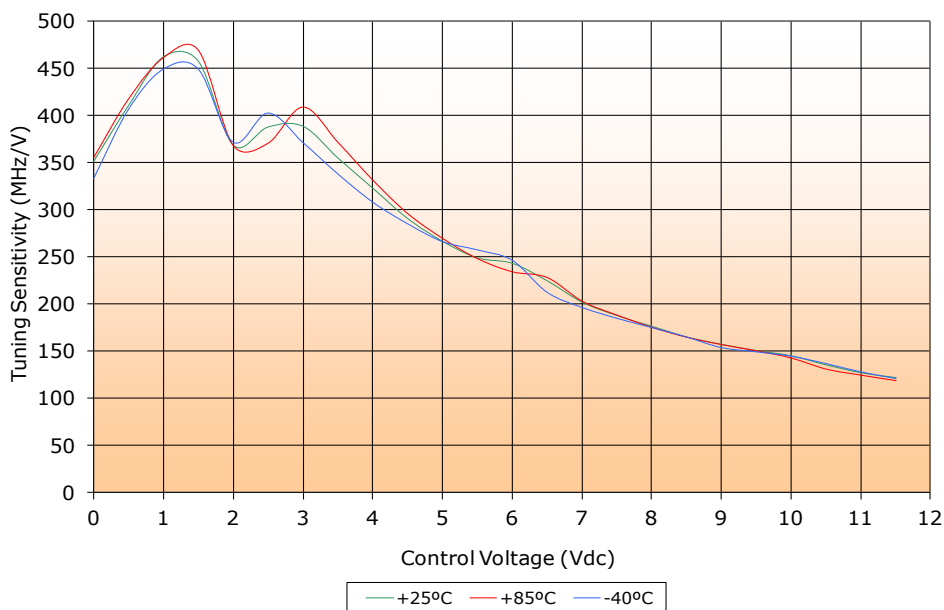
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