

# VOLTAGE CONTROLLED OSCILLATOR

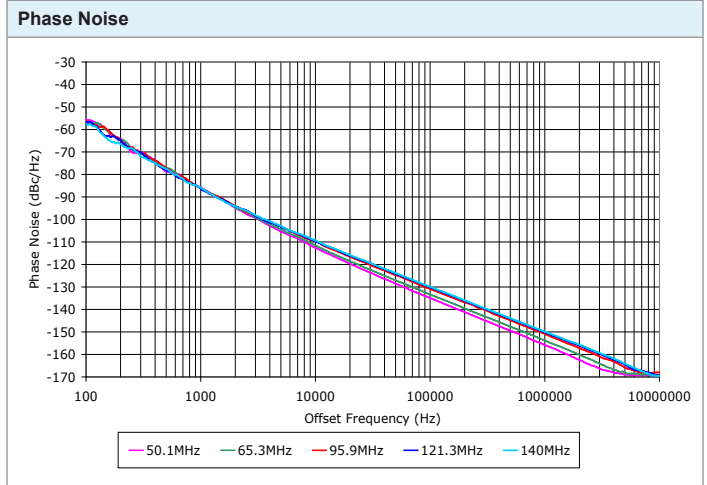
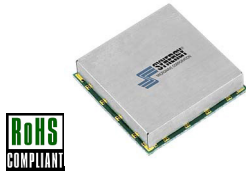
## SURFACE MOUNT MODEL: DCMO514-5

**WIDE BANDWIDTH**

**50 - 140 MHz**

**FEATURES:**

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



**SPECIFICATIONS (Rev. E 10/20/10)**

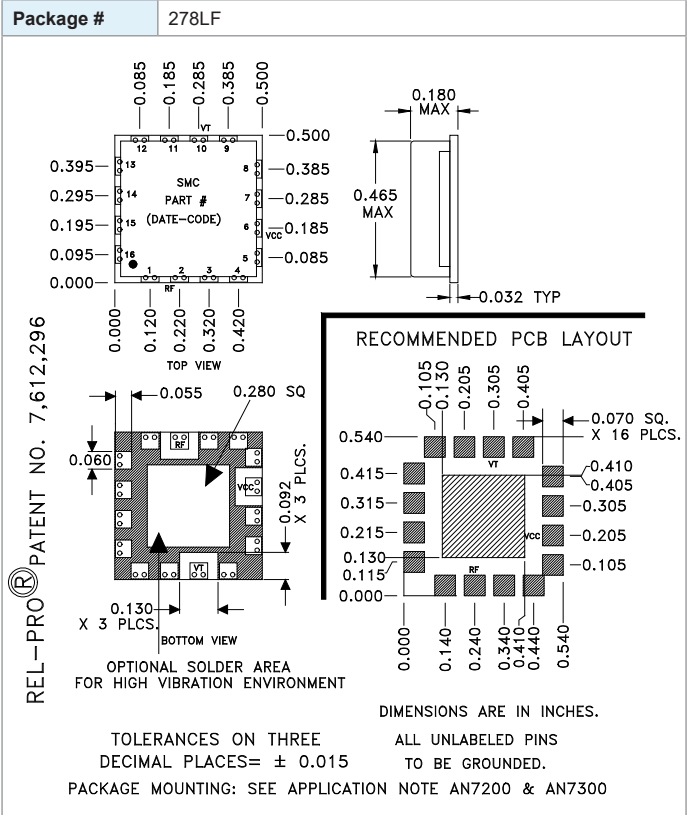
Frequency	50 - 140 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 35 mA (Max.)
Output Power	+3.5 dBm (Min.)
Tuning Sensitivity	3 - 6.5 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	10 dB (Typ.)
Frequency Pulling	3 MHz (Max. @ 1.75:1 VSWR)
Frequency Pushing	1 MHz/V (Max.)
Tuning Port Capacitance	470 pF (Typ.)
Phase Noise @ 10 kHz	-110 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

**Guaranteed Tuning Specifications**

Tuning Voltage ( V )	Frequency ( MHz )
0.5	50 (Max.)
5	60 (Min.)
8	80 (Min.)
12	100 (Min.)
15	115 (Min.)
18	125 (Min.)
24	140 (Min.)

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+26 V
DC Voltage Applied to RF Out	± 25 V



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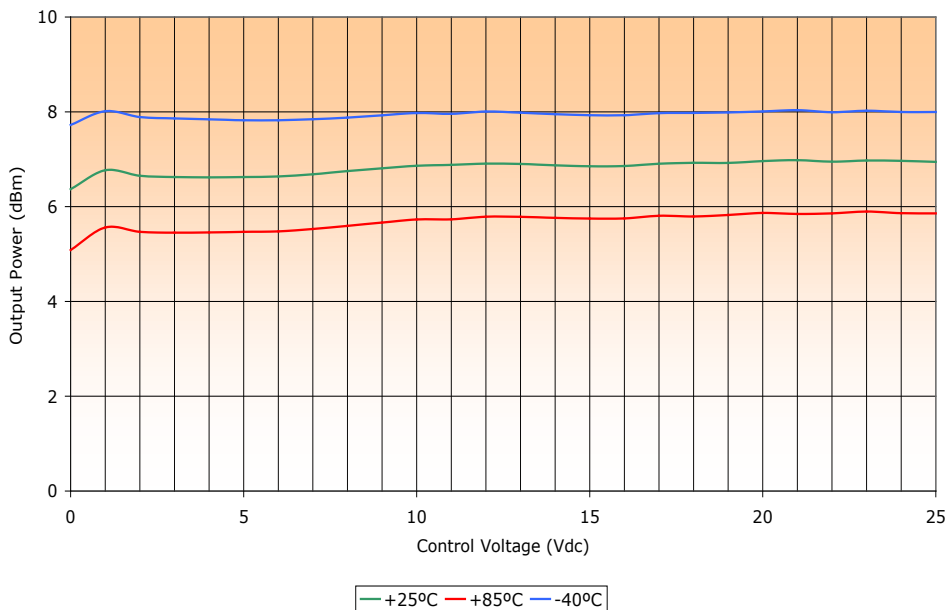
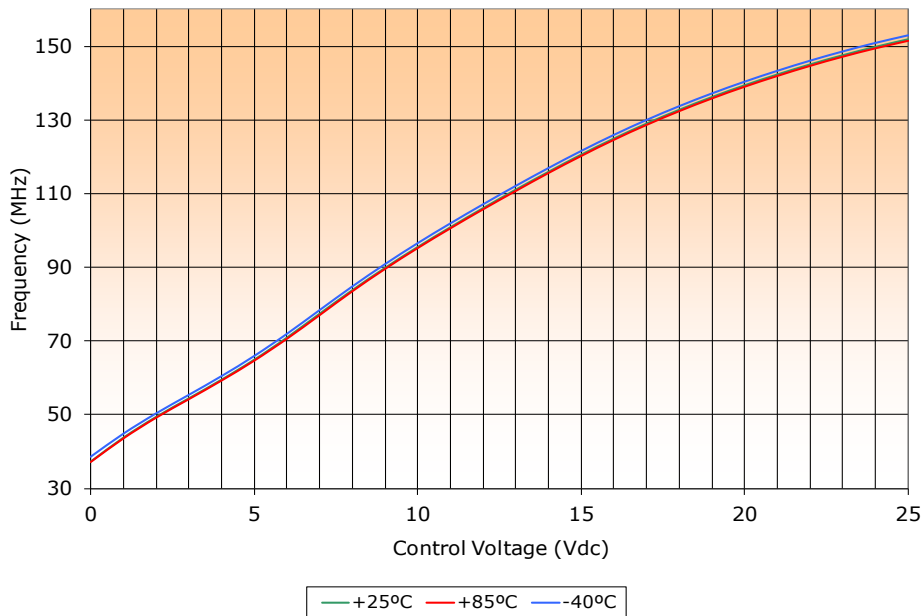


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PERFORMANCE PLOTS



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