

# VOLTAGE CONTROLLED OSCILLATOR

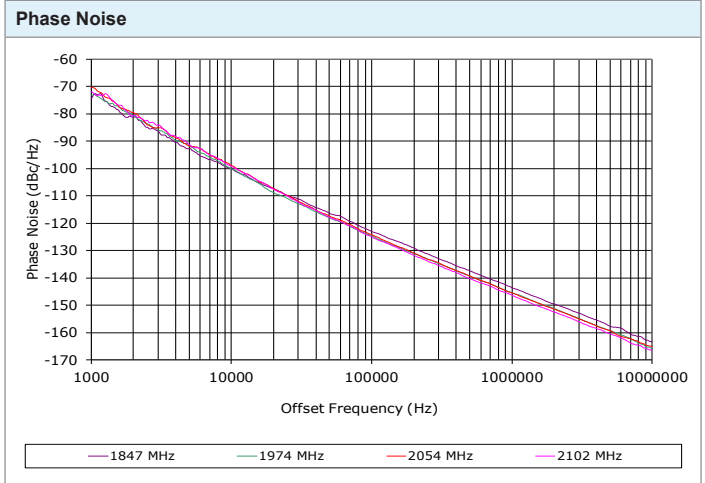
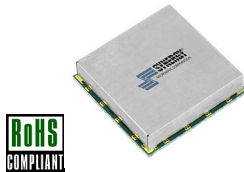
## SURFACE MOUNT MODEL: DCRO185210-5

OPTIMIZED BANDWIDTH

1850 - 2100 MHz

**FEATURES:**

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



**SPECIFICATIONS**

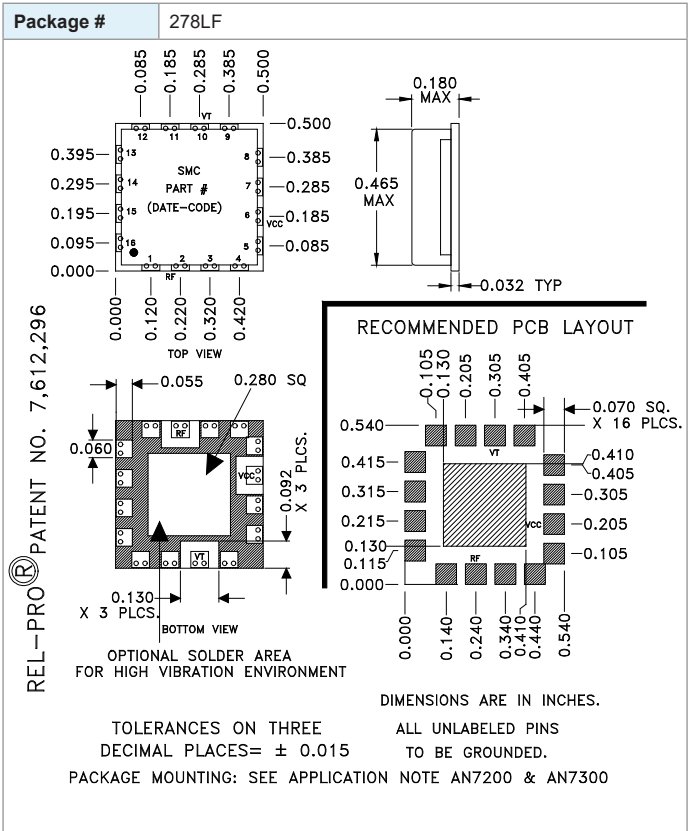
Frequency	1850 - 2100 MHz
Tuning Voltage	See table below.
Bias Voltage	5 VDC @ 30 mA (Max.)
Output Power	+2.5 dBm (Min.)
Tuning Sensitivity	35 - 55 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	18 dB (Typ.)
Frequency Pulling	10 MHz (Typ. @ 2:1 VSWR)
Frequency Pushing	6 MHz/V (Typ.)
Tuning Port Capacitance	80 pF (Typ.)
Phase Noise @ 10 kHz	-98 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

**Guaranteed Tuning Specifications**

Tuning Voltage ( V )	Frequency ( MHz )
0.5	1850 (Max.)
8	1980 (Min.)
14	2100 (Min.)

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.2 V
Tuning Voltage	+18 V
DC Voltage Applied to RF Out	± 25 V



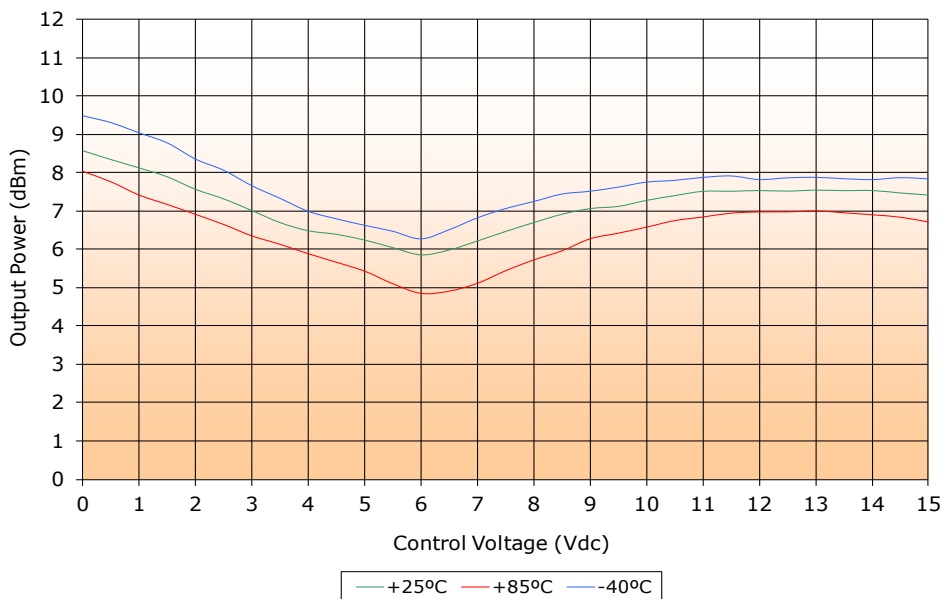
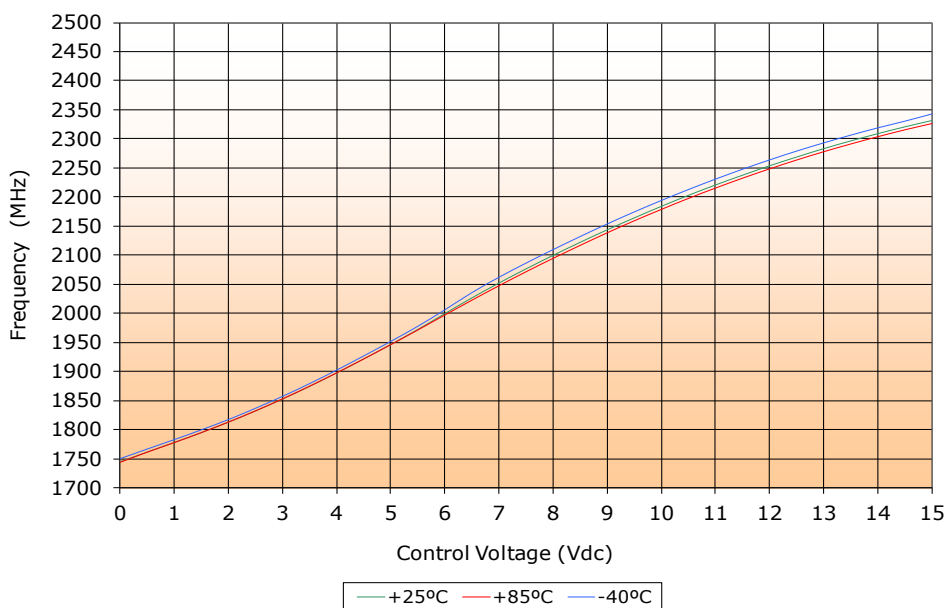
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