

VOLTAGE CONTROLLED OSCILLATOR

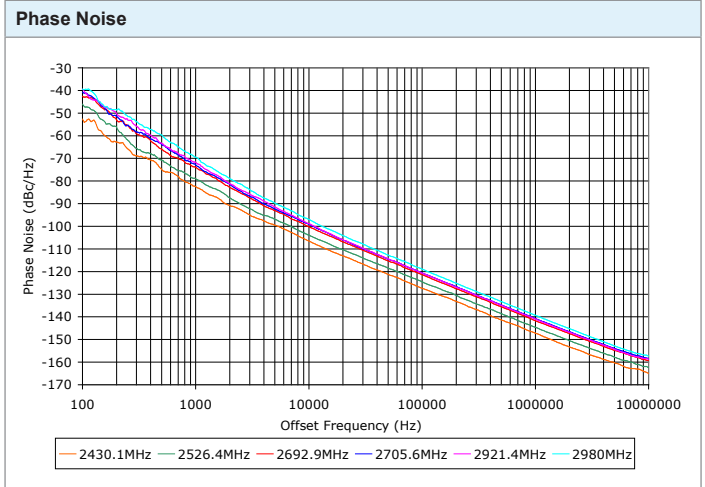
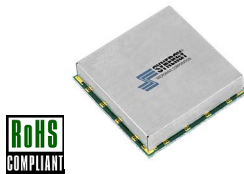
SURFACE MOUNT MODEL: DCRO243298-5

OPTIMIZED BANDWIDTH

2430 - 2980 MHz

FEATURES:

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



SPECIFICATIONS (Rev. G 01/02/12)

Frequency	2430 - 2980 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 30 mA (Max.)
Output Power	+3 dBm (Min.)
Tuning Sensitivity	25 - 62 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	10 dB (Typ.)
Frequency Pulling	5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	10 MHz/V (Typ.)
Tuning Port Capacitance	40 pF (Typ.)
Phase Noise @ 10 kHz	-103 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Package # 278LF

RECOMMENDED PCB LAYOUT

REL-PRO® PATENT NO. 7,612,296

OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

ALL UNLABELED PINS TO BE GROUNDED.

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	2430 (Max)
5	2450 (Min)
8	2630 (Min)
12	2840 (Min)
15	2980 (Min)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+18 V
DC Voltage Applied to RF Out	± 25 V

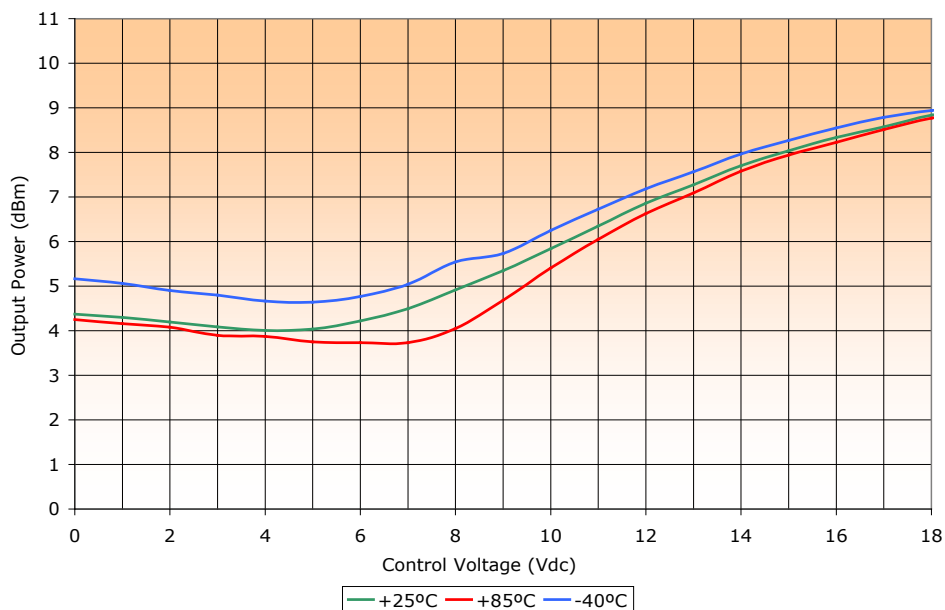
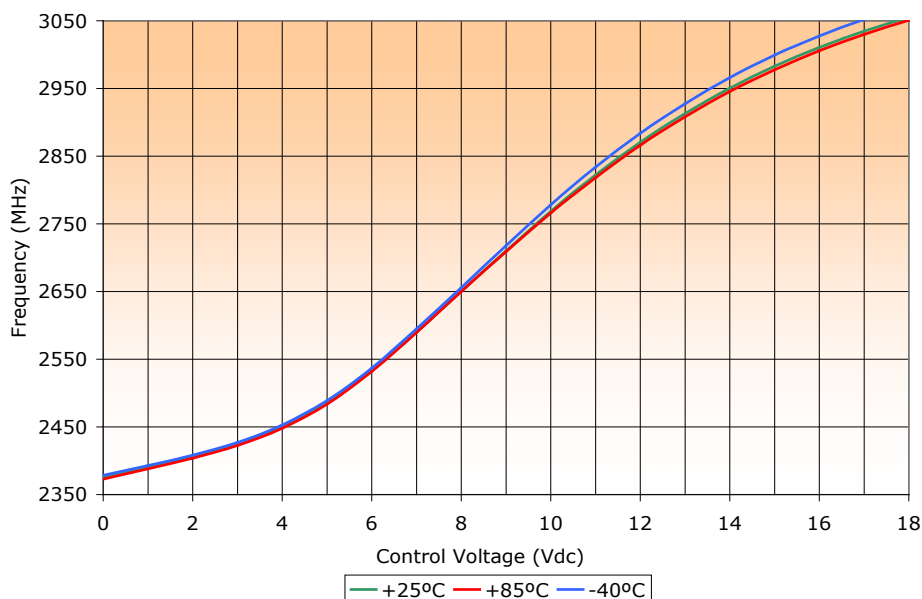
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO243298-5

OPTIMIZED BANDWIDTH

2430 - 2980 MHz

PERFORMANCE PLOTS



VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO243298-5

OPTIMIZED BANDWIDTH

2430 - 2980 MHz

PERFORMANCE PLOTS

