

VOLTAGE CONTROLLED OSCILLATOR

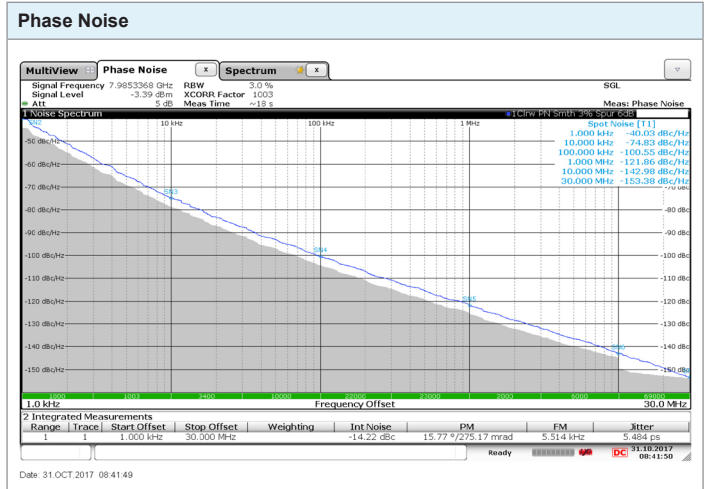
SURFACE MOUNT MODEL: DCO400800-5

WIDE BANDWIDTH

4000 - 8000 MHz

FEATURES:

- ▶ Miniature Size, Surface Mount (0.3" x 0.3")
- ▶ Exceptional Phase Noise Performance
- ▶ Fast Tuning



SPECIFICATIONS (Rev. E 03/04/20)

Frequency	4000 - 8000 MHz	
Tuning Voltage	See table below.	
Bias Voltage	+5 VDC @ 20 mA (Max.)	
Output Power	-4 dBm (Min.)	
Tuning Sensitivity	120 - 620 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	10 dB (Typ.)	
Frequency Pulling	60 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	15 MHz/V (Typ.)	
Tuning Port Capacitance	30 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-73
	100 kHz	-98
Operating Temperature Range	-40 to +85 °C	

Package # 364LF

REL-PRO PATENT NO. 7,612,296

RECOMMENDED PCB LAYOUT

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 AND AN7302
 TOLERANCES ON THREE DECIMAL PLACES= ± 0.015
 DIMENSIONS ARE IN INCHES.
 ALL UNLABELED PINS TO BE GROUNDING.

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.3	4000 (Max.)
5	5200 (Min.)
8	6200 (Min.)
12	7000 (Min.)
15	8000 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+16 V
DC Voltage Applied to RF Out	± 25 V

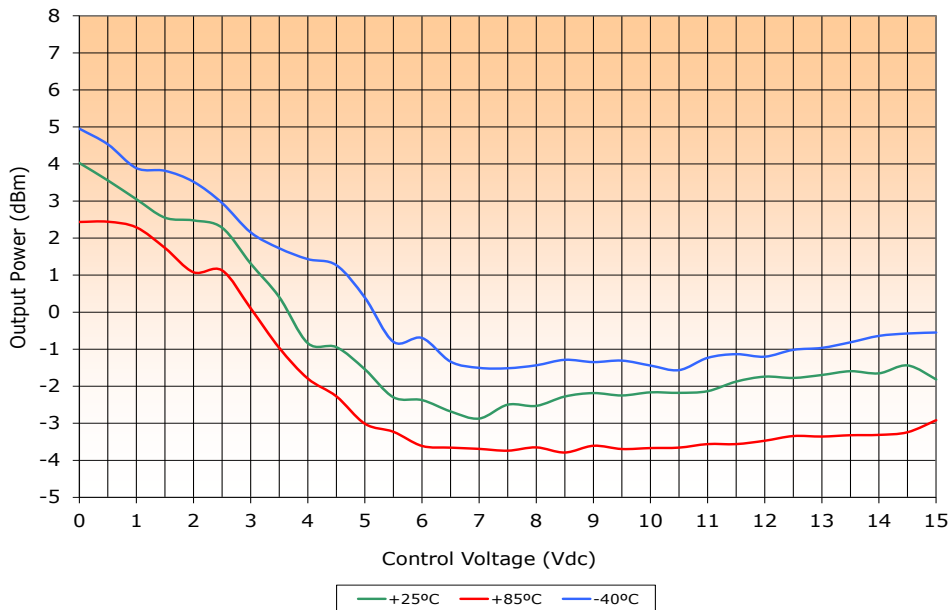
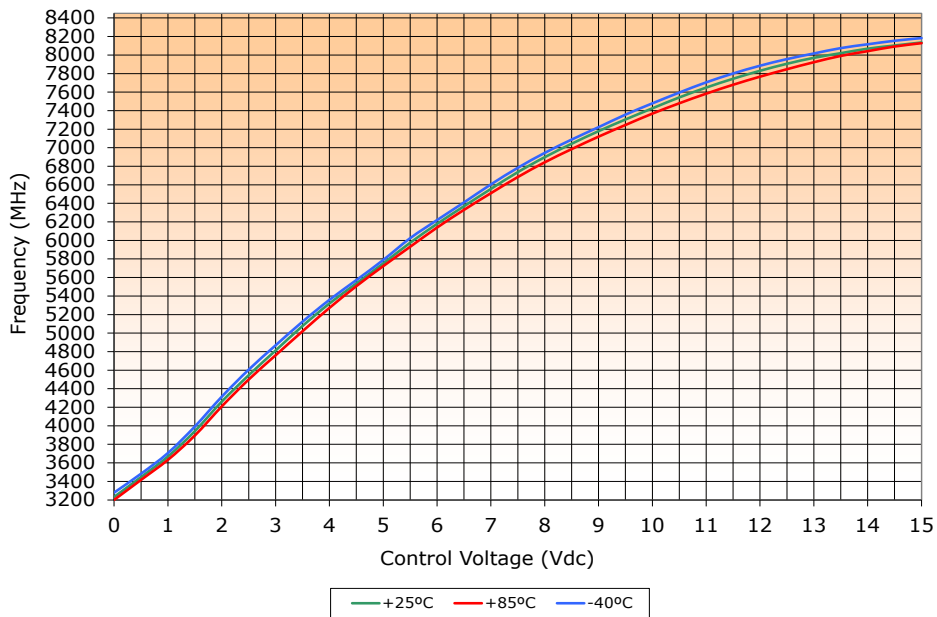
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