

VOLTAGE CONTROLLED OSCILLATOR

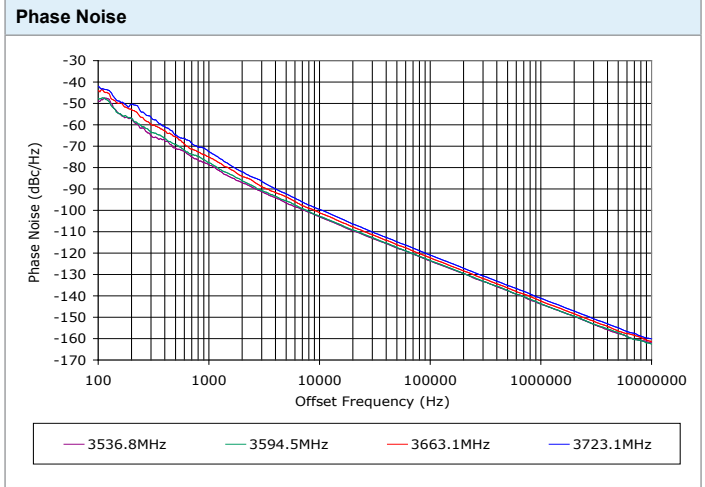
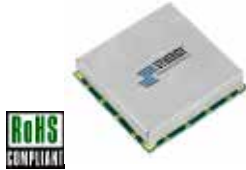
SURFACE MOUNT MODEL: DCRO354374-10

OPTIMIZED BANDWIDTH

3540 - 3740 MHz

FEATURES:

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



SPECIFICATIONS (Rev. D 09/02/14)

Frequency	3540 - 3740 MHz
Tuning Voltage	See table below.
Bias Voltage	+10 VDC @ 35 mA (Max.)
Output Power	+3 dBm (Min.)
Tuning Sensitivity	18 - 28 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	22 dB (Typ.)
Frequency Pulling	8 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	5 MHz/V (Typ.)
Tuning Port Capacitance	50 pF (Typ.)
Phase Noise @ 10 kHz	-102 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	3540 (Max.)
5	3573 (Min.)
8	3605 (Min.)
12	3670 (Min.)
15	3740 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+10.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	±25 V

Package # 278LF

REL-PRO® PATENT NO. 7,612,296

RECOMMENDED PCB LAYOUT

OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

DIMENSIONS ARE IN INCHES.

ALL UNLABELED PINS TO BE GROUNDING.

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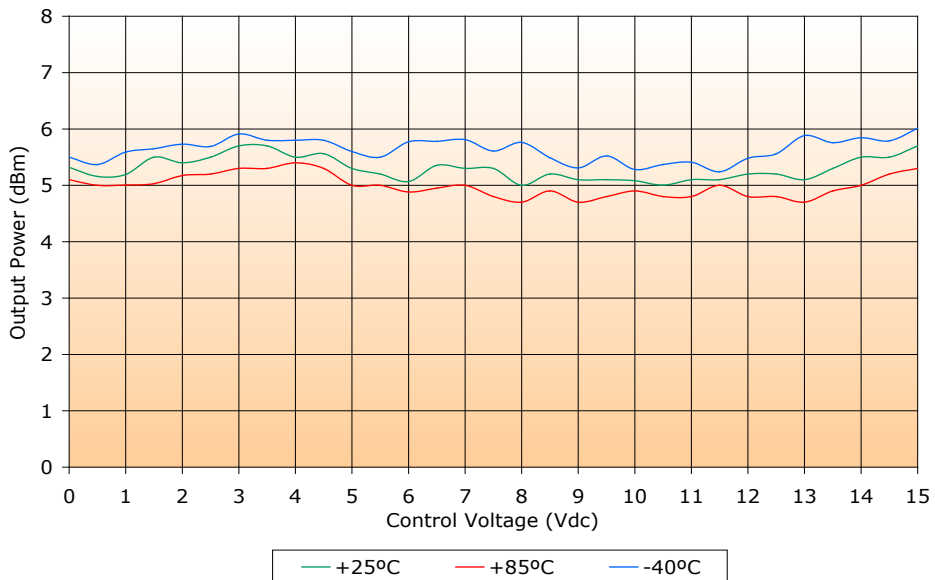
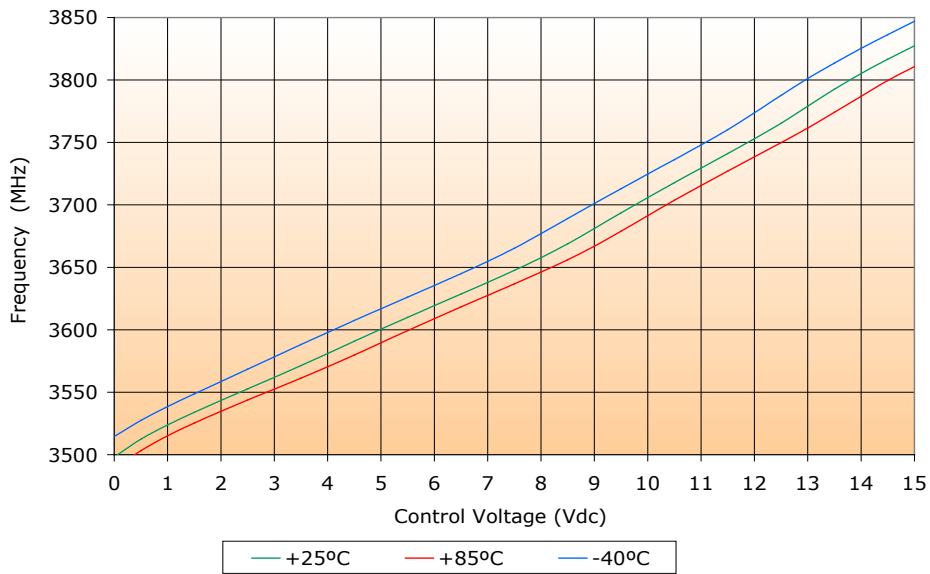
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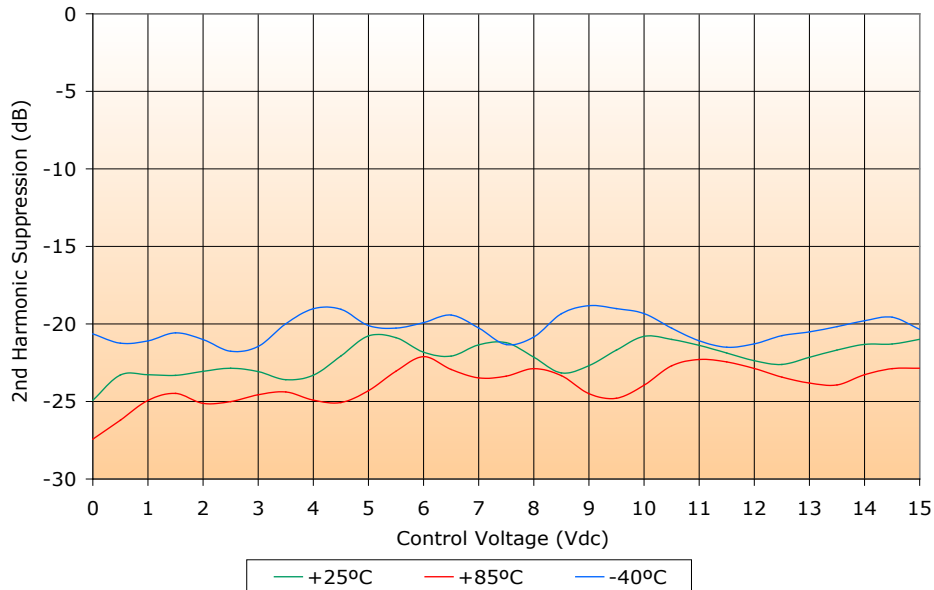
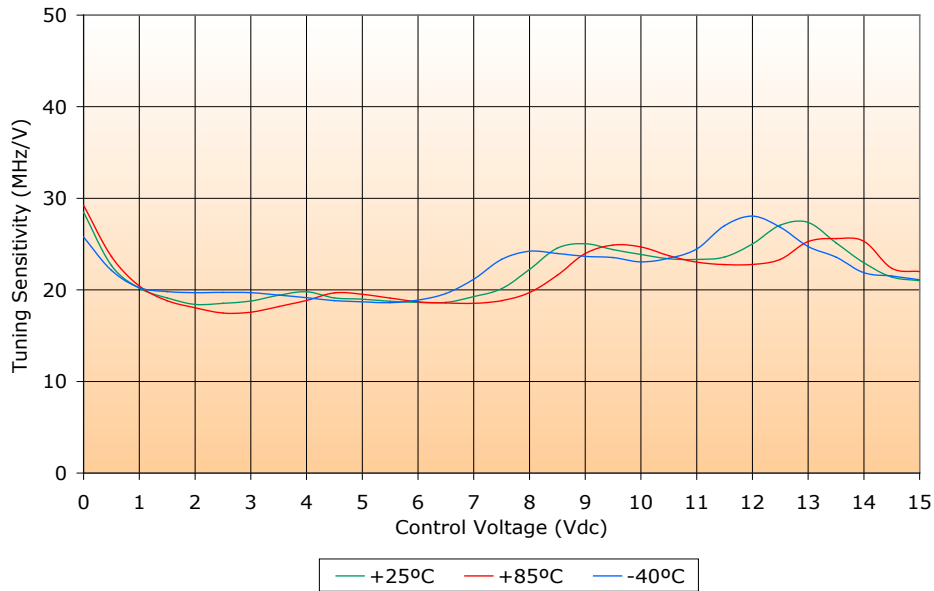
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