

# VOLTAGE CONTROLLED OSCILLATOR

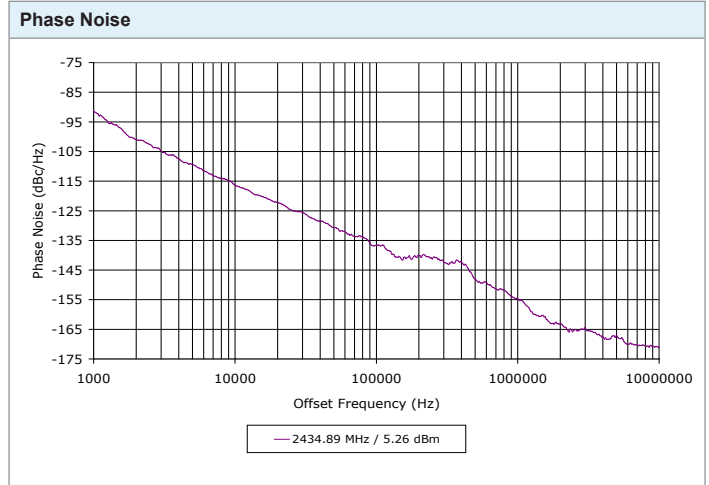
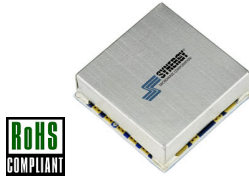
## SURFACE MOUNT MODEL: DCSO2438-10

OPTIMIZED FREQUENCY

2437.50 MHz

**FEATURES:**

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



**SPECIFICATIONS (Rev. C 09/11/08)**

Frequency	2437.50 MHz
Tuning Voltage	0.5 - 10 VDC
Bias Voltage	+10 VDC @ 50 mA (Max.)
Output Power	+2.5 dBm (Min.)
Tuning Sensitivity	0.7 - 1.4 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	35 dB (Typ.)
Frequency Pulling	1 MHz (Max. @ 1.75:1 VSWR)
Frequency Pushing	2 MHz/V (Max.)
Tuning Port Capacitance	44 pF (Typ.)
Phase Noise @ 10 kHz	-116 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

**Package #** 249LF

**RECOMMENDED PCB LAYOUT**

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

PORT CONFIGURATION				
Tuning Voltage	RF Output	DC Supply Input	No Connection	All Others
2	9	11	4	Ground

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+10.5 V
Tuning Voltage	+12 V
DC Voltage Applied to RF Out	± 25 V

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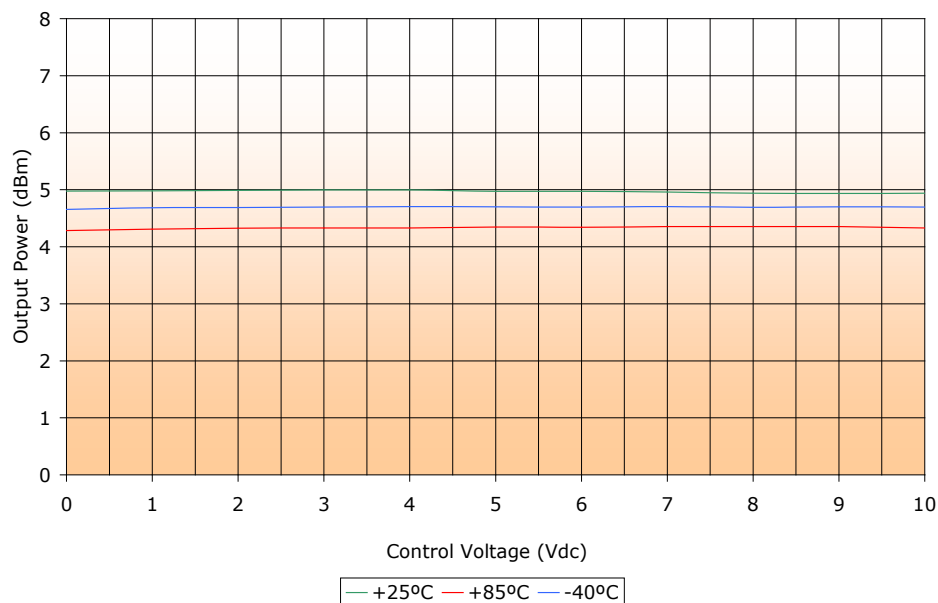
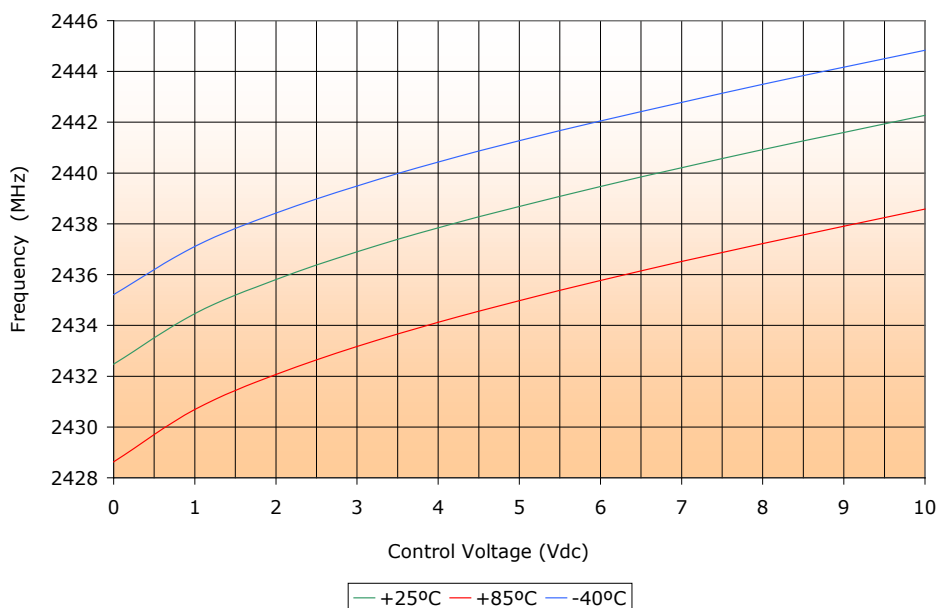
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PERFORMANCE PLOTS



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