

# VOLTAGE CONTROLLED OSCILLATOR

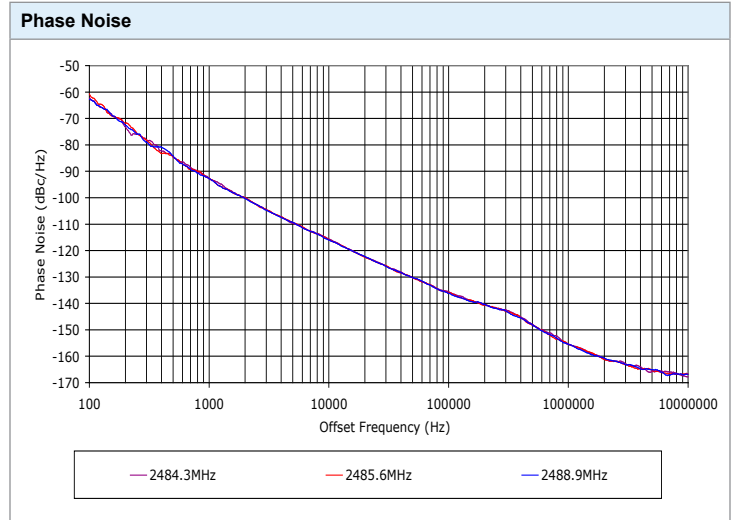
## SURFACE MOUNT MODEL: DCSO2488-12

OPTIMIZED CENTER FREQUENCY

2488.32 MHz

**FEATURES:**

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



**SPECIFICATIONS (Rev. E 11/18/08)**

Frequency	2488.32 MHz
Tuning Voltage	1 - 7 VDC
Bias Voltage	+12 VDC @ 45 mA (Max.)
Output Power	+4 dBm (Min.)
Tuning Sensitivity	1.0 - 1.5 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	28 dB (Typ.)
Frequency Pulling	0.25 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	0.20 MHz/V (Typ.)
Tuning Port Capacitance	45 pF (Typ.)
Phase Noise @ 10 kHz	-117 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

**Package #** 249LF

The drawings show the physical dimensions of the SMC package. Key dimensions include a width of 0.750 inches, a height of 0.165 inches maximum, and a length of 0.490 inches. The package has 14 pins numbered 1 through 14. A recommended PCB layout is provided with dimensions for the solder area and pad sizes (0.080 and 0.060 inches at 16 plcs.).

**REL-PRO® PAT.# 7,612,296**

**OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT**

**PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300**

PORT CONFIGURATION			
Tuning Voltage	RF Output	DC Supply Input	All Others
2	9	11	Ground

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+12.5 V
Tuning Voltage	+10 V
DC Voltage Applied to RF Out	± 25 V

This product is manufactured under one or more of the following patents: Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,650,754; 5,805,431; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,533,623 | Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751

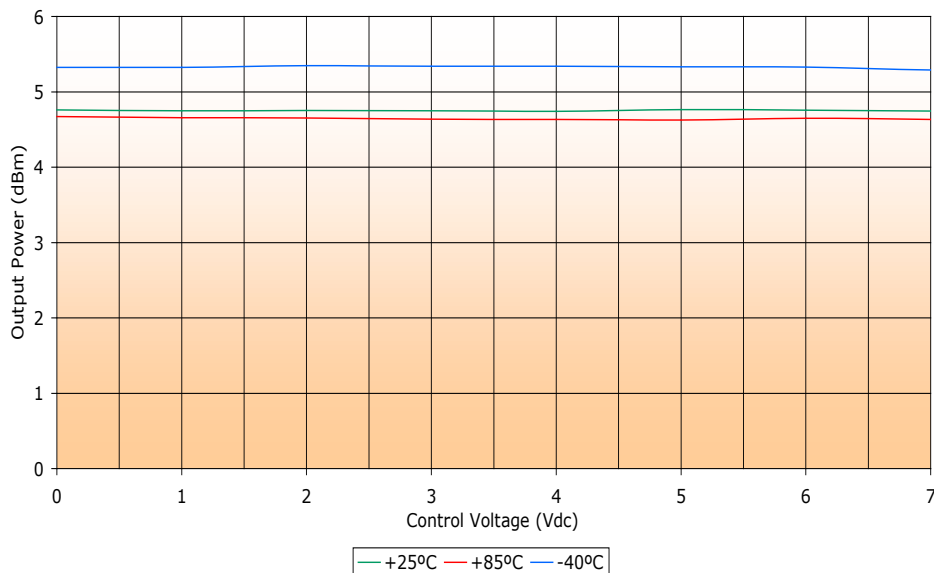
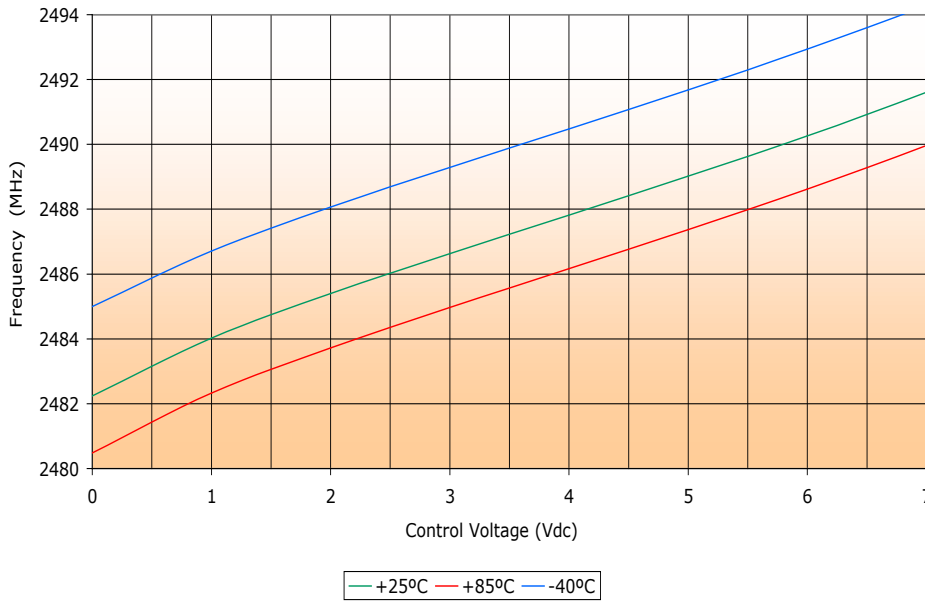


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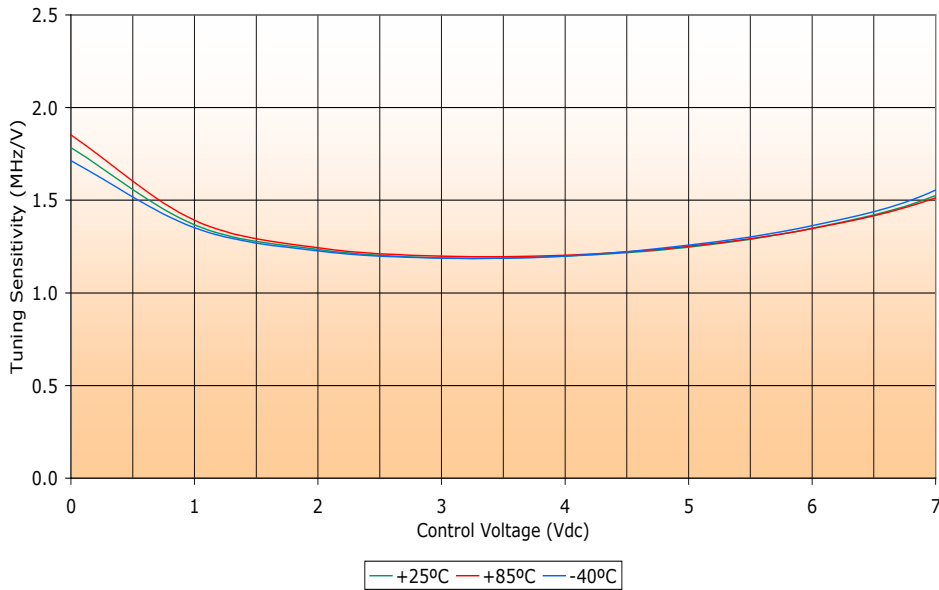
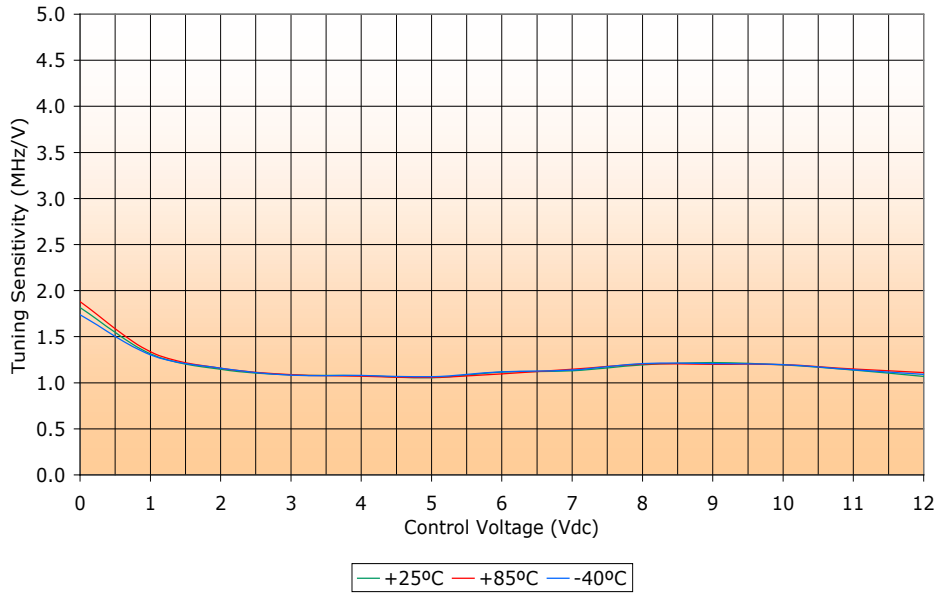


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