

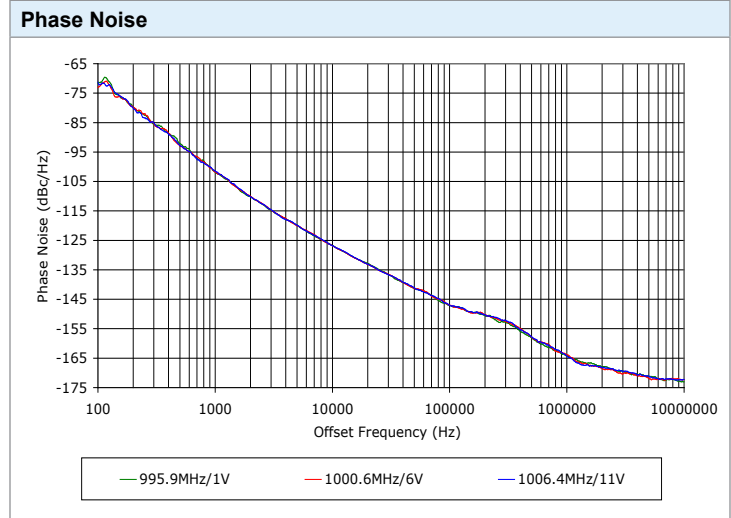
# VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCSO1000-12

OPTIMIZED CENTER FREQUENCY

1000 MHz

## FEATURES:

- ▶ Highly Immune To Phase Hits
- ▶ Low Phase Noise (SAW Replacement)
- ▶ Tolerant To Supply Variation
- ▶ Fast Tuning
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology
- ▶ Planar Resonator Construction



## SPECIFICATIONS(Rev. F 01/03/08)

Frequency	1000 MHz
Tuning Voltage	0.5 - 12 VDC
Bias Voltage	+12 VDC @ <35 mA
Output Power	+4 dBm (Min)
Tuning Sensitivity	2 MHz/V (Typ)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	20 dBc (Min)
Frequency Pulling	500 kHz (Typ @ 1.75:1 VSWR)
Frequency Pushing	50 kHz/V (Typ)
Phase Noise @ 10 kHz	-126 dBc/Hz (Typ)
Operating Temperature Range	-40 to +85 °C

**Package #** 249LF

**RECOMMENDED PCB LAYOUT**

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

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

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  
Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528970; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787

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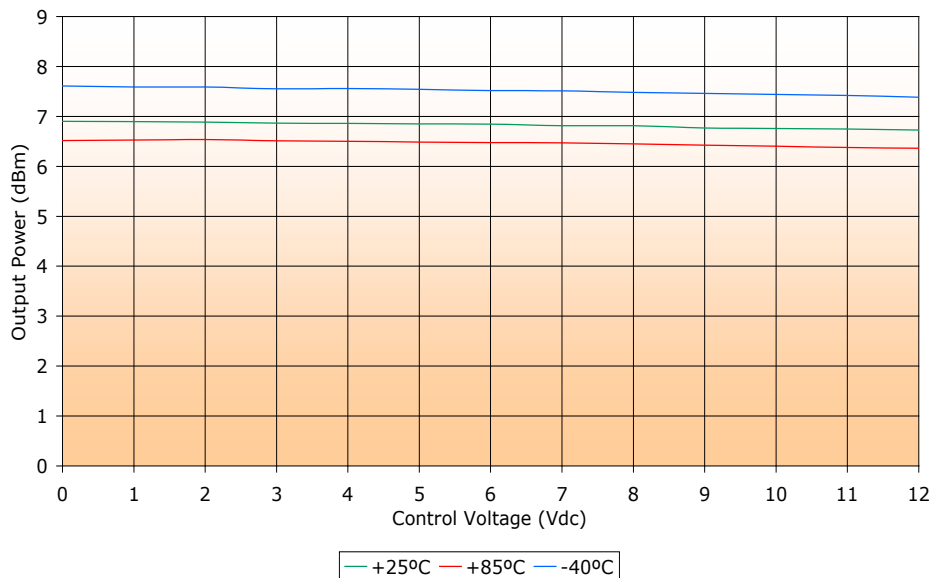
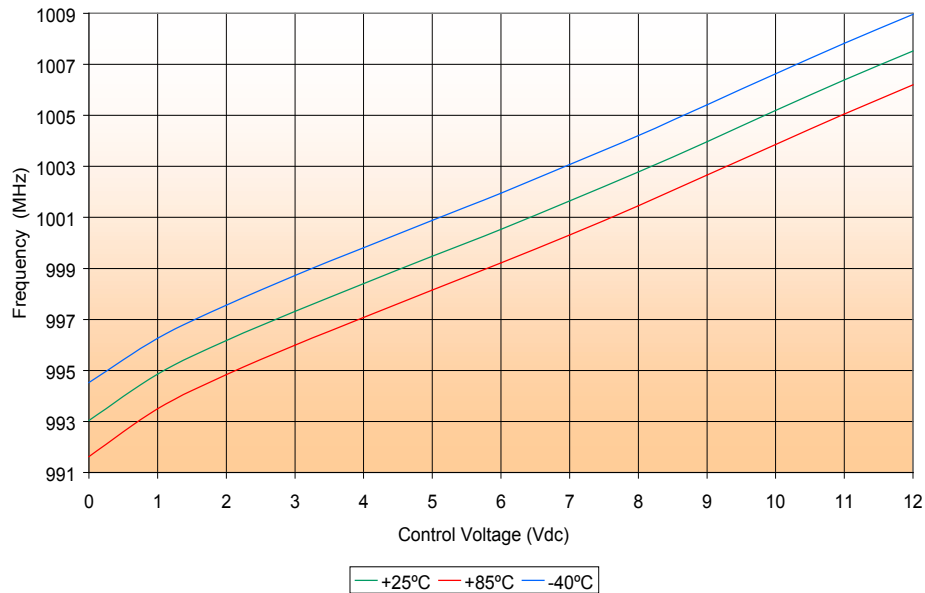


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PERFORMANCE PLOTS



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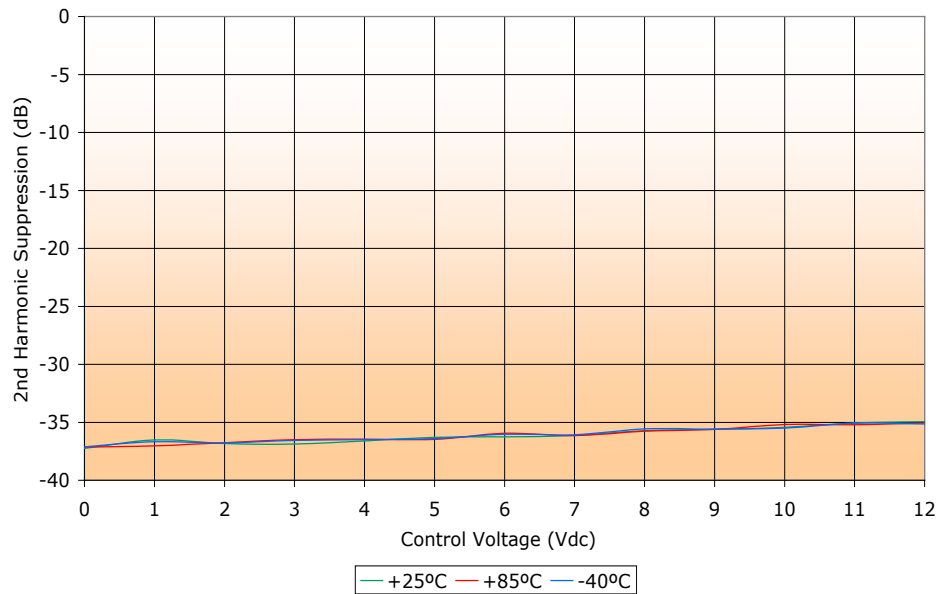
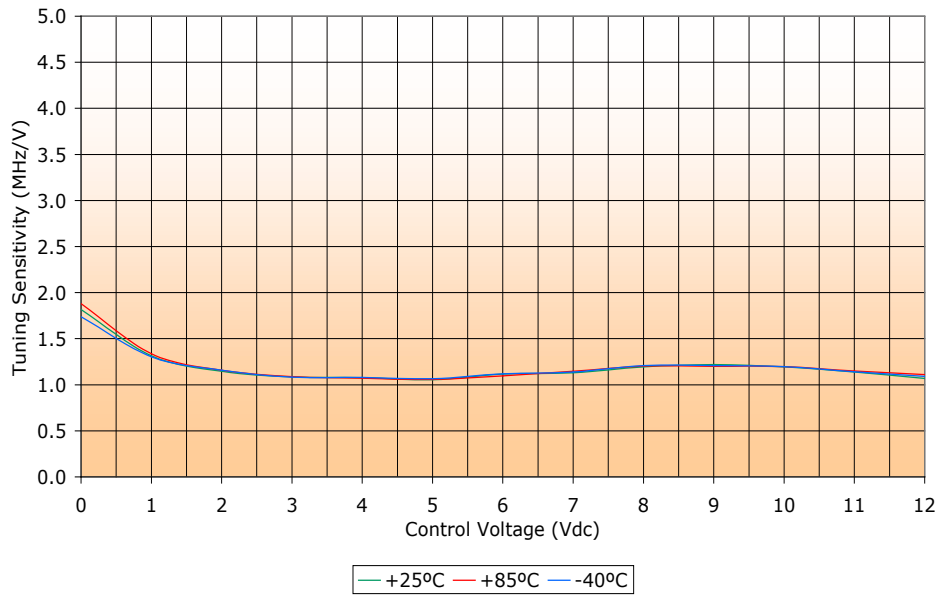


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