

# VOLTAGE CONTROLLED OSCILLATOR

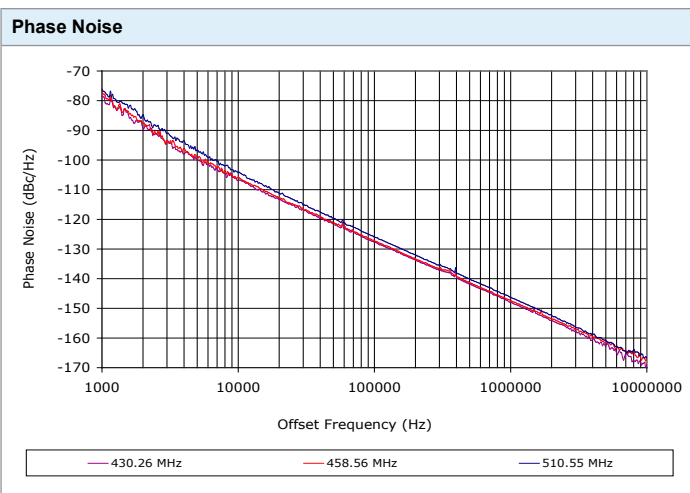
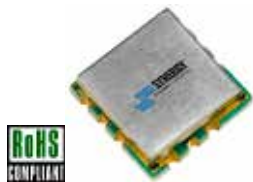
## SURFACE MOUNT MODEL: DCO4351-8

OPTIMIZED BANDWIDTH

430 - 510 MHz

**FEATURES:**

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



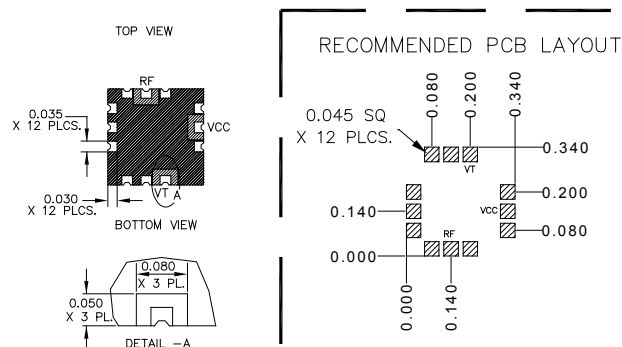
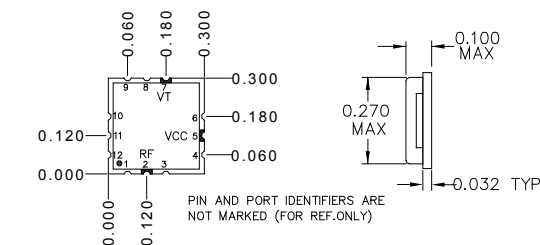
**SPECIFICATIONS (Rev. C 09/02/14)**

Frequency	430 - 510 MHz	
Tuning Voltage	0.3 - 3.0 VDC	
Bias Voltage	+8 VDC @ 32 mA (Max.)	
Output Power	0 dBm (Min.)	
Tuning Sensitivity	35 - 55 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	13 dB (Typ.)	
Frequency Pulling	3 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	2 MHz/V (Typ.)	
Tuning Port Capacitance	92 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-105
	100 kHz	-127
Operating Temperature Range	-40 to +85 °C	

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+8.5 V
Tuning Voltage	+8
DC Voltage Applied to RF Out	±25 V

Package # 343



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300 & AN7302

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015

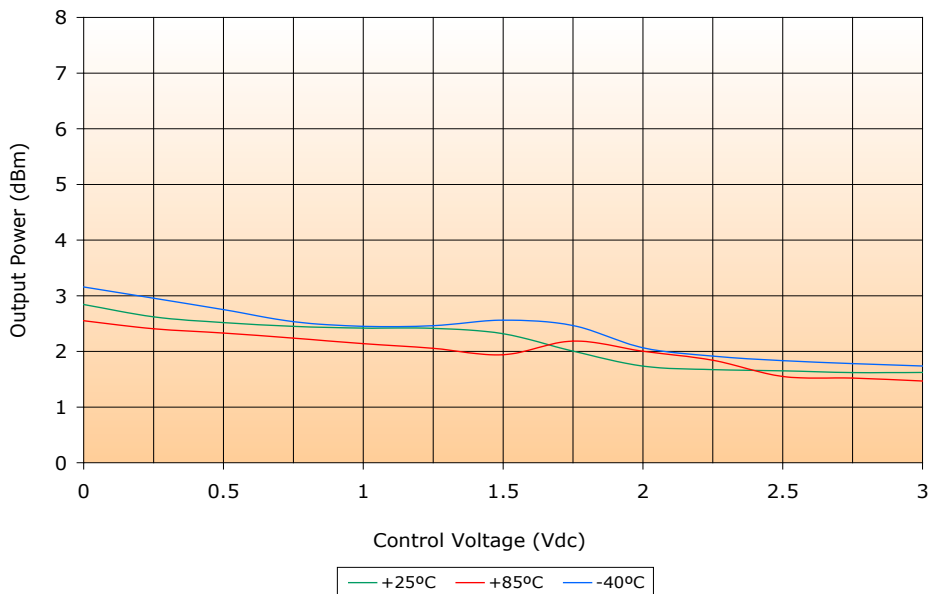
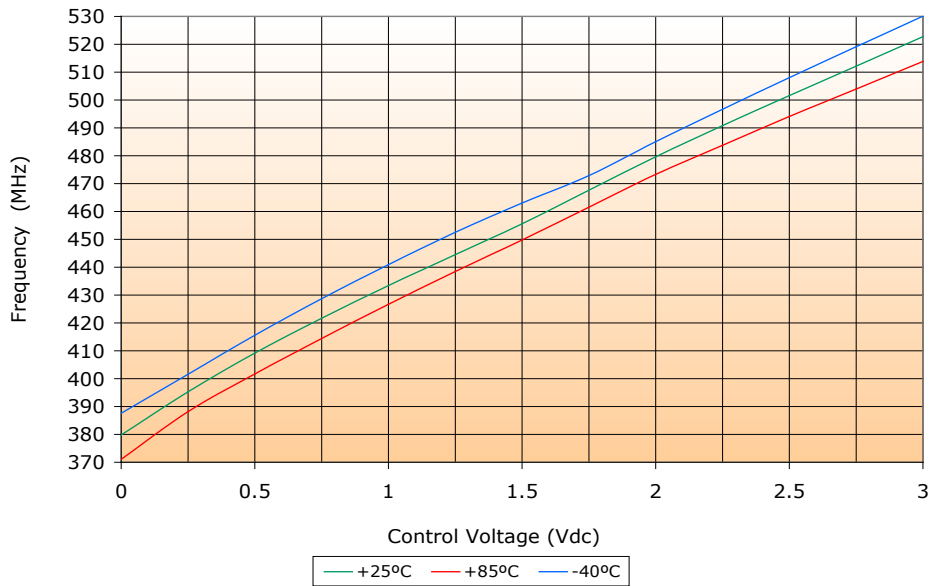
DIMENSIONS ARE IN INCHES. ALL UNLABELED PINS TO BE GROUNDED.

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PERFORMANCE PLOTS



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