

VOLTAGE CONTROLLED OSCILLATOR

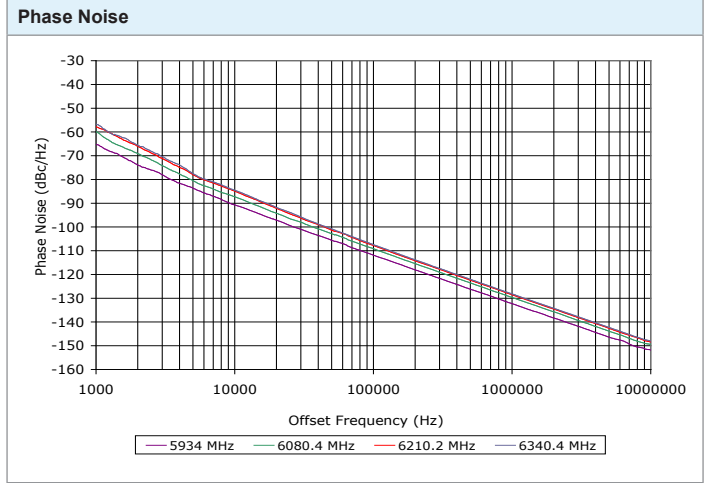
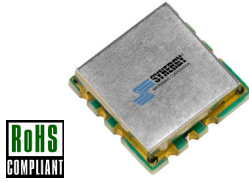
SURFACE MOUNT MODEL: DCO608634-3

OPTIMIZED BANDWIDTH

6080 - 6340 MHz

FEATURES:

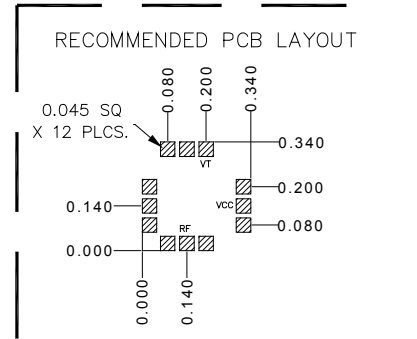
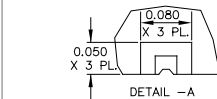
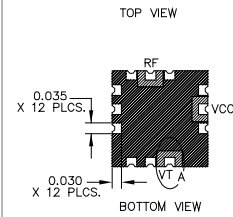
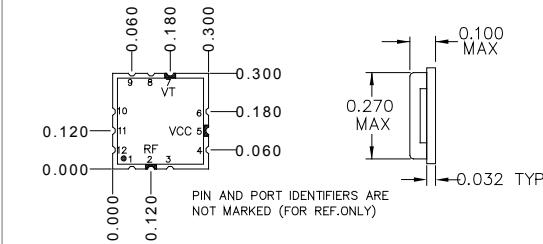
- ▶ Miniature Size, Surface Mount (0.3" x 0.3")
- ▶ Exceptional Phase Noise Performance
- ▶ Fast Tuning
- ▶ Planar Resonator Construction



SPECIFICATIONS (Rev B 01/09/14)

Frequency	6080 - 6340 MHz	
Tuning Voltage	See table below.	
Bias Voltage	+3 VDC @ 26 mA (Max.)	
Output Power	-6 dBm (Min.)	
Tuning Sensitivity	95 - 105 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	25 dB (Typ.)	
Frequency Pulling	30 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	30 MHz/V (Typ.)	
Tuning Port Capacitance	1.5 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-86
	100 kHz	-108
Operating Temperature Range	-40 to +85 °C	

Package # 343



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	6080 (Max.)
5	6340 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+3.3 V
Tuning Voltage	+7 V
DC Voltage Applied to RF Out	±25 V

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300 & AN7302

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015

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

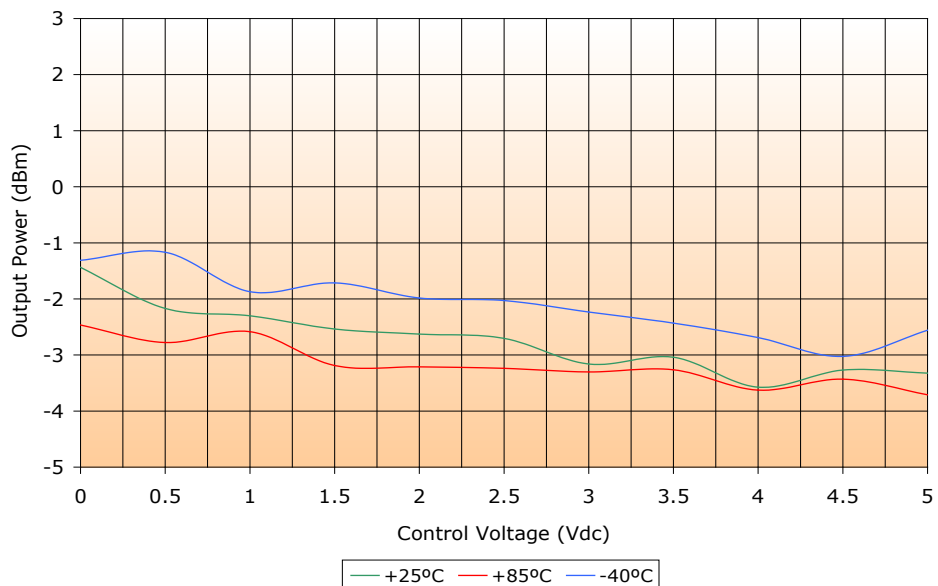
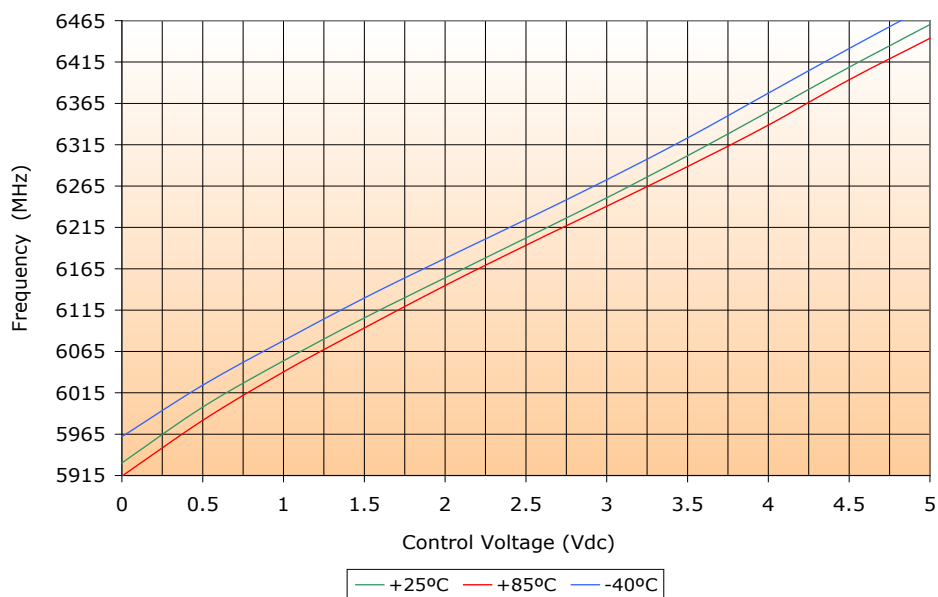
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PERFORMANCE PLOTS



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