

VOLTAGE CONTROLLED OSCILLATOR

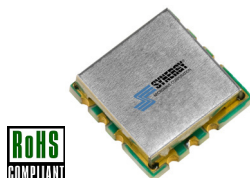
SURFACE MOUNT MODEL: DCO80100-5

OPTIMIZED BANDWIDTH

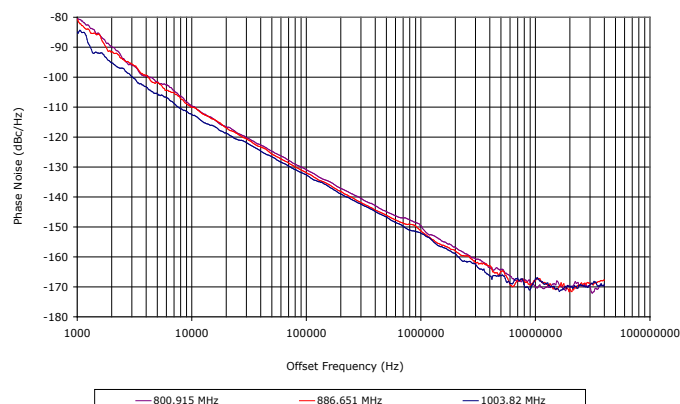
800 - 1000 MHz

FEATURES:

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



Phase Noise



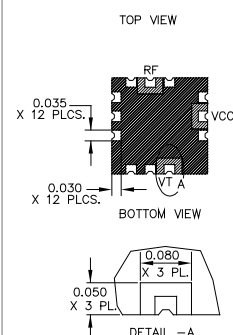
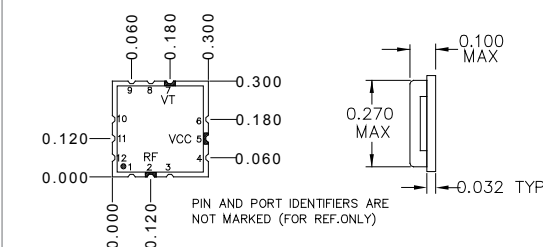
SPECIFICATIONS (Rev. D 01/09/14)

Frequency	800 - 1000 MHz	
Tuning Voltage	0.5 - 8 V	
Bias Voltage	+5 VDC @ 26 mA (Max.)	
Output Power	+4 dBm (Min.)	
Tuning Sensitivity	25 - 55 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	17 dB (Typ.)	
Frequency Pulling	8 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	3 MHz/V (Typ.)	
Tuning Port Capacitance	68 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-111
	100 kHz	-132
Operating Temperature Range	-40 to +85 °C	

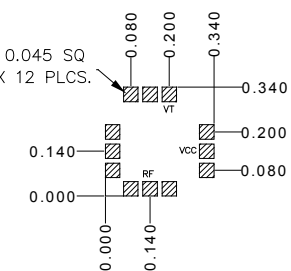
Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+10 V
DC Voltage Applied to RF Out	± 25 V

Package # 343



RECOMMENDED PCB LAYOUT



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300 & AN7302

TOLERANCES ON THREE
DECIMAL PLACES= ± 0.015

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

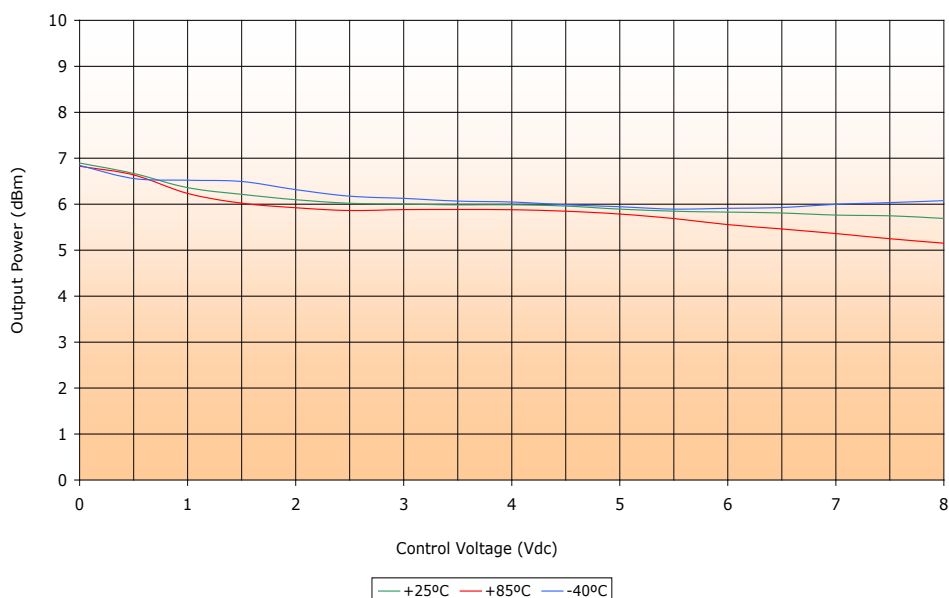
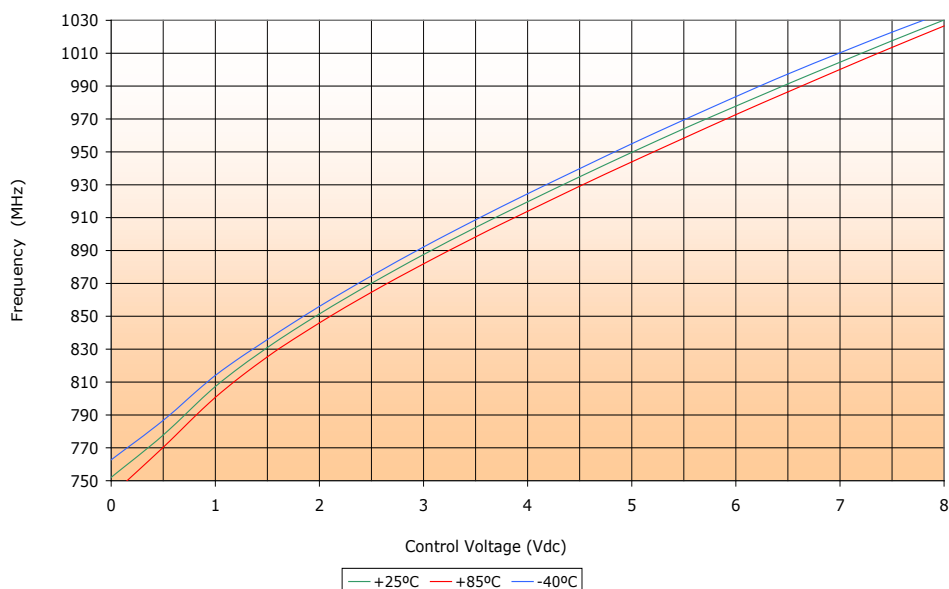
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