

# VOLTAGE CONTROLLED OSCILLATOR

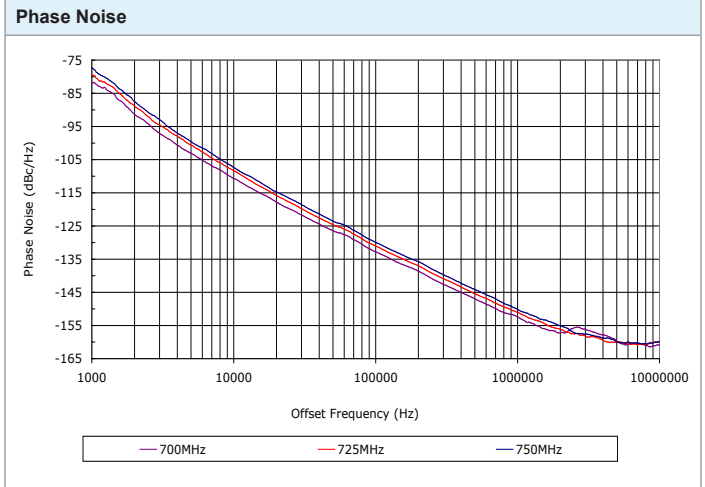
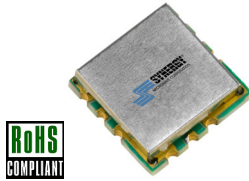
## SURFACE MOUNT MODEL: DCO7075-3

**OPTIMIZED BANDWIDTH**

**700 - 750 MHz**

**FEATURES:**

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



**SPECIFICATIONS (Rev C 01/09/14)**

Frequency	700 - 750 MHz	
Tuning Voltage	0 to 3.0 V	
Bias Voltage	+3 VDC @ 12 mA (Max.)	
Output Power	-3 dBm (Min.)	
Tuning Sensitivity	30 - 42 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	16 dB (Typ.)	
Frequency Pulling	2 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	2 MHz/V (Typ.)	
Tuning Port Capacitance	100 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-108
	100 kHz	-130
Operating Temperature Range	-40 to +85 °C	

**Absolute Maximum Ratings**

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+3.3 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 GROUNDING.

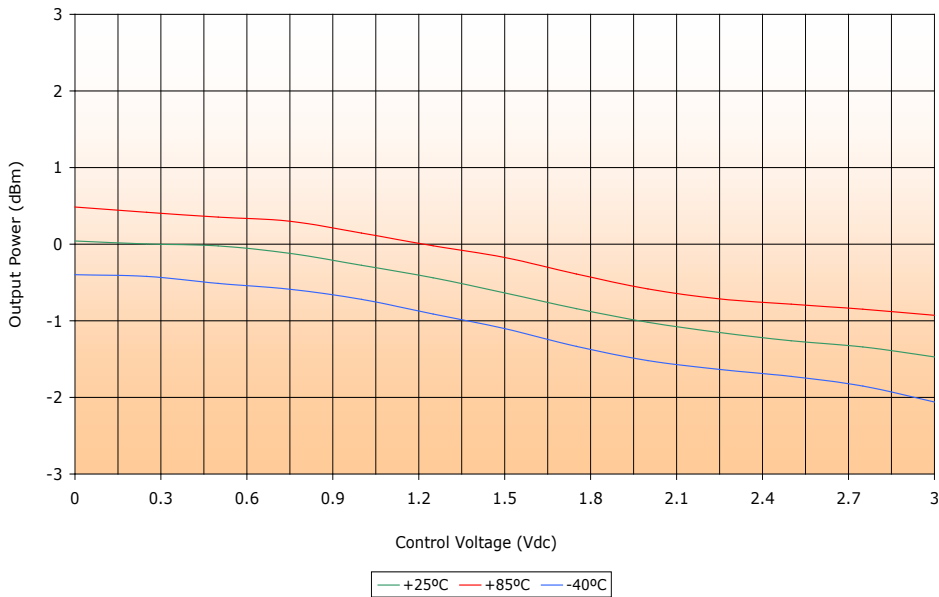
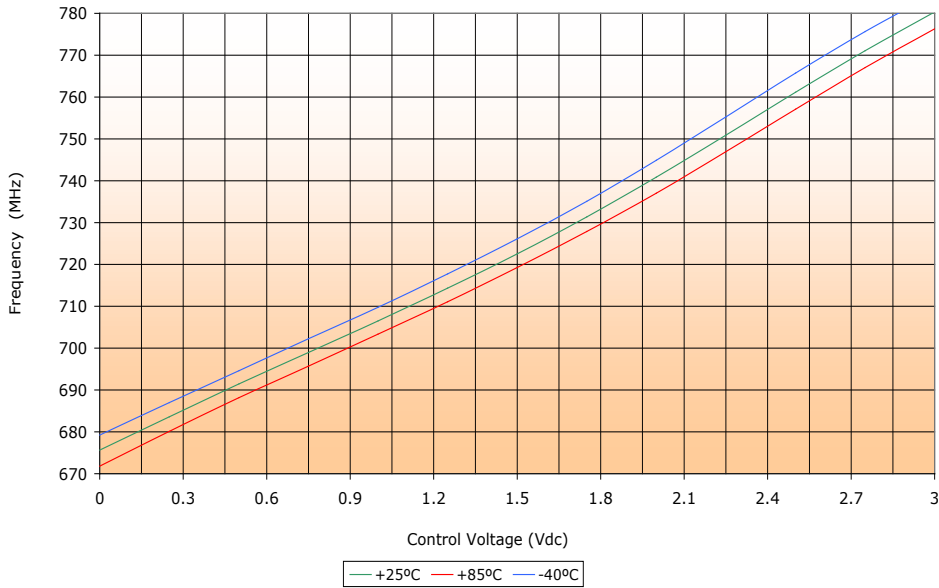
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