

VOLTAGE CONTROLLED OSCILLATOR

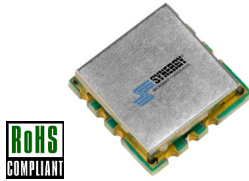
SURFACE MOUNT MODEL: DCO7075-3

OPTIMIZED BANDWIDTH

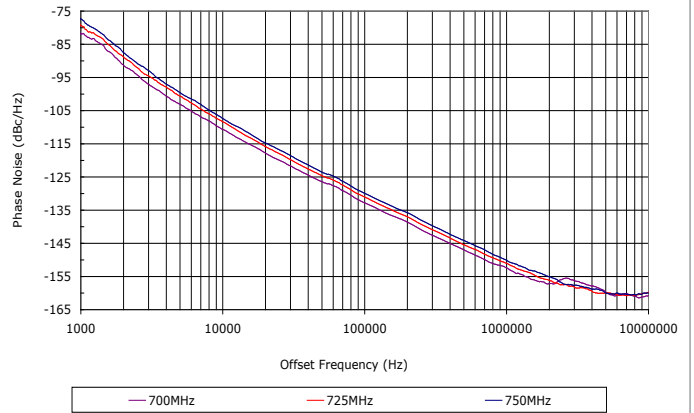
700 - 750 MHz

FEATURES:

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



Phase Noise



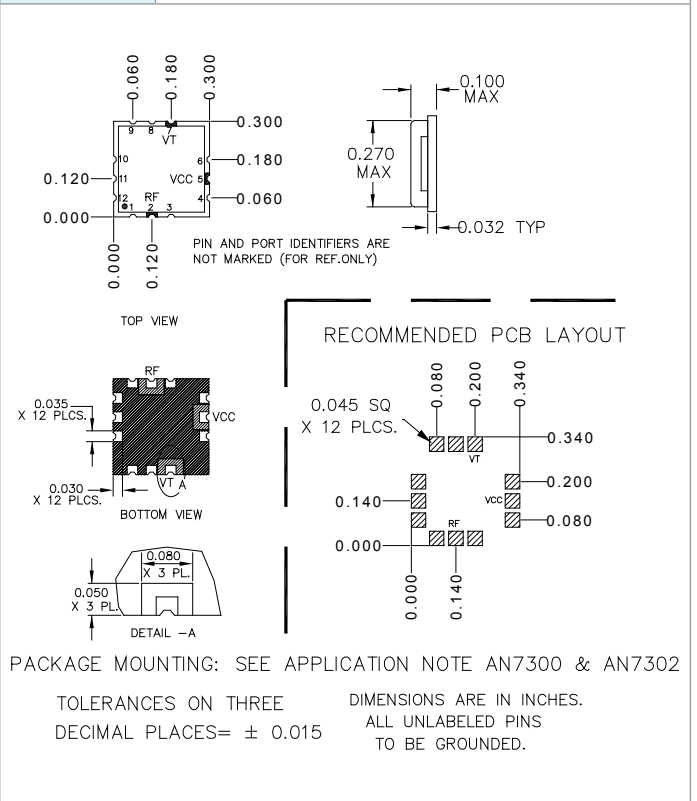
SPECIFICATIONS (Rev C 01/09/14)

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



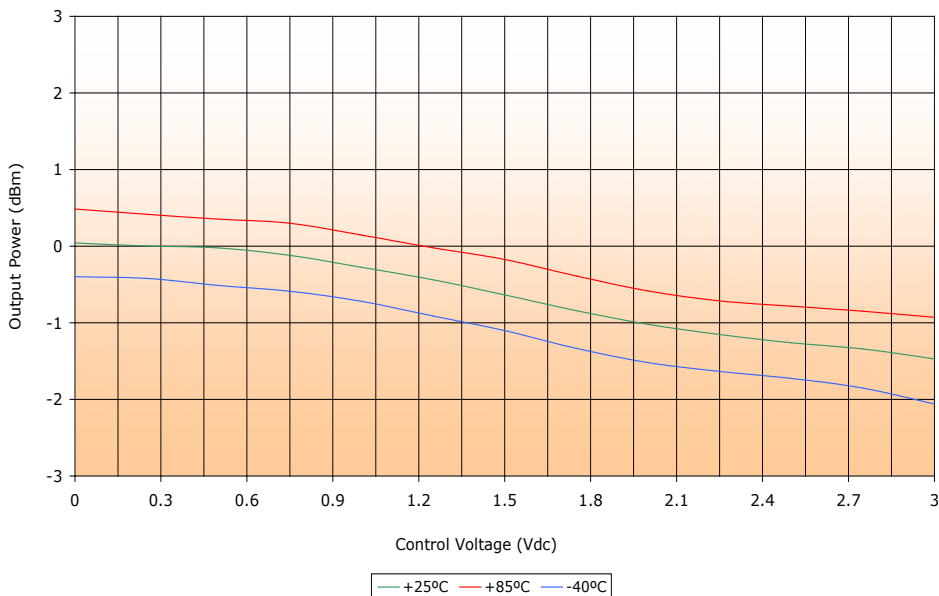
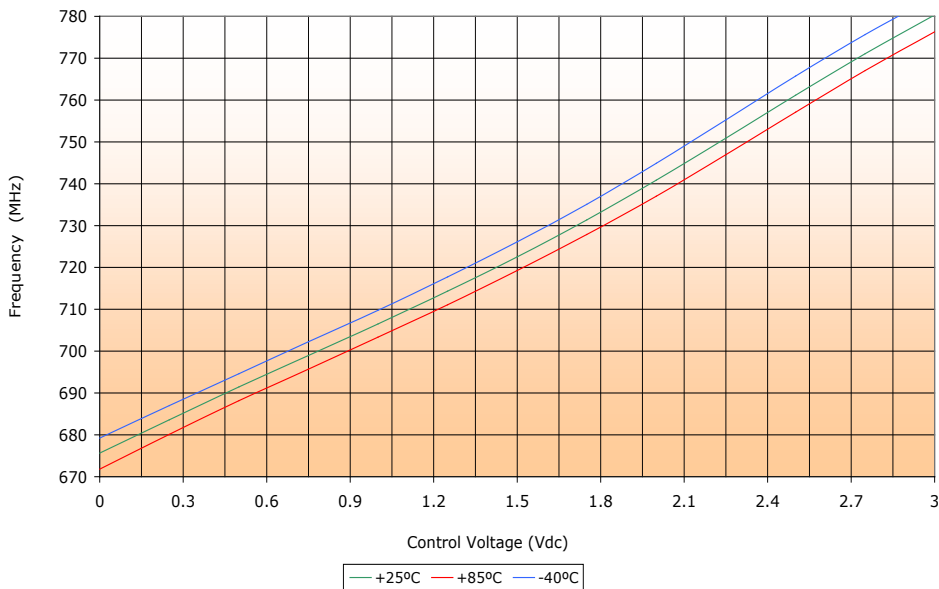
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PERFORMANCE PLOTS



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