

VOLTAGE CONTROLLED OSCILLATOR

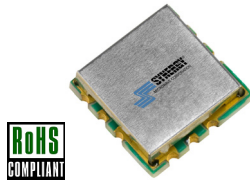
SURFACE MOUNT MODEL: DCO676700-5

OPTIMIZED BANDWIDTH

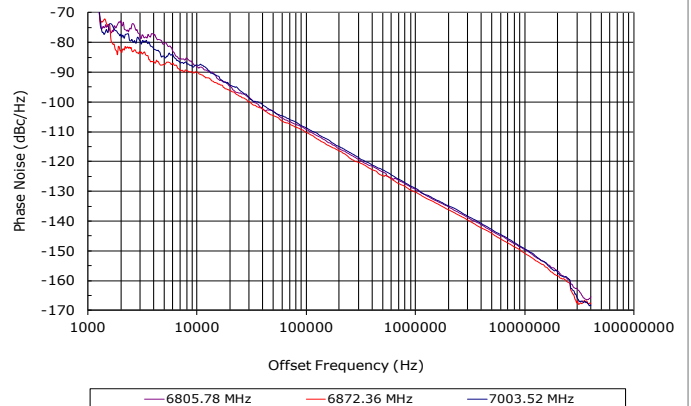
6760 - 7000 MHz

FEATURES:

- ▶ Miniature Size, Surface Mount (0.3"x0.3")
- ▶ Superb Phase Noise Performance
- ▶ Optimized Narrow Band Tuning



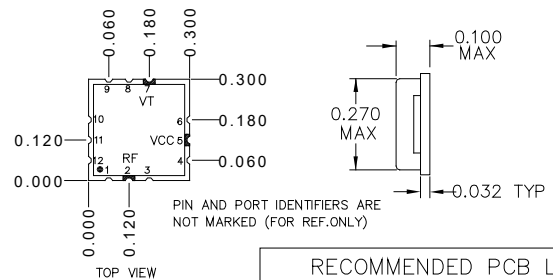
Phase Noise



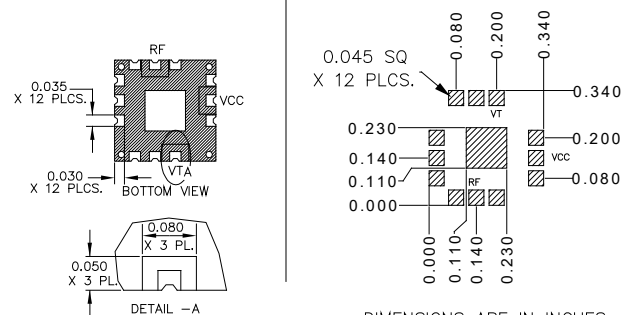
SPECIFICATIONS

Frequency	6760 - 7000 MHz	
Tuning Voltage	0.5 - 5 V	
Bias Voltage	+5 VDC @ 35 mA (Max.)	
Output Power	0 dBm (Min.)	
Tuning Sensitivity	65 - 95 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	32 dB (Typ.)	
Frequency Pulling	12 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	12 MHz/V (Typ.)	
Tuning Port Capacitance	10 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-88
	100 kHz	-109
Operating Temperature Range	-40 to +85 °C	

Package # 364



RECOMMENDED PCB LAYOUT



TOLERANCES ON THREE DECIMAL PLACES = ± 0.015
 ALL UNLABELED PINS TO BE GROUNDED.
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300 & AN7302

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+12 V
DC Voltage Applied to RF Out	± 25 V

Copyright © Synergy Microwave Corporation
 201 McLean Boulevard • Paterson, New Jersey 07504 USA
 Tel: (973) 881-8800 • Fax: (973) 881-8361
 E-Mail: sales@synergymwave.com • Website: http://www.synergymwave.com
 Patents : http://www.synergymwave.com/patents



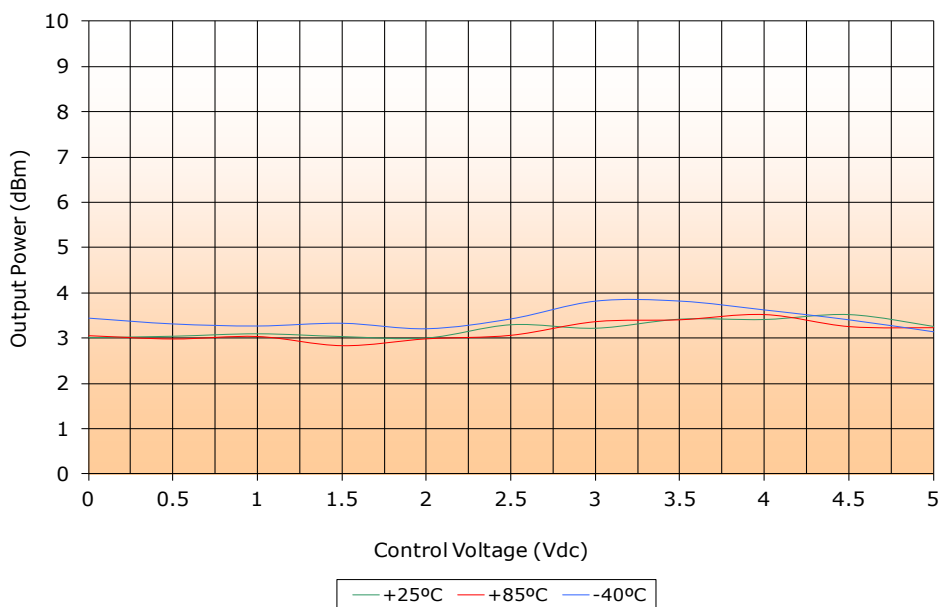
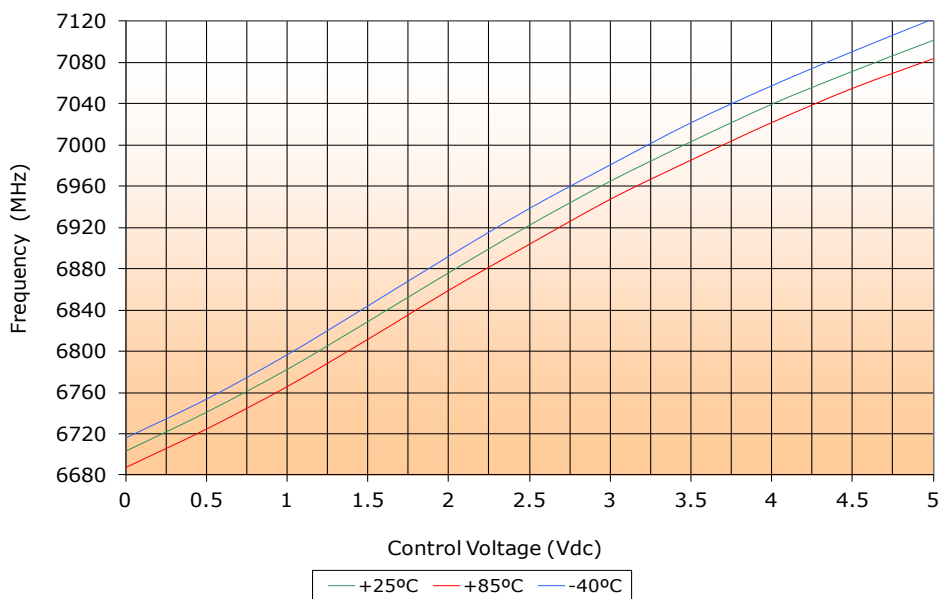
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCO676700-5

OPTIMIZED BANDWIDTH

6760 - 7000 MHz

PERFORMANCE PLOTS



VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCO676700-5

OPTIMIZED BANDWIDTH

6760 - 7000 MHz

PERFORMANCE PLOTS

