

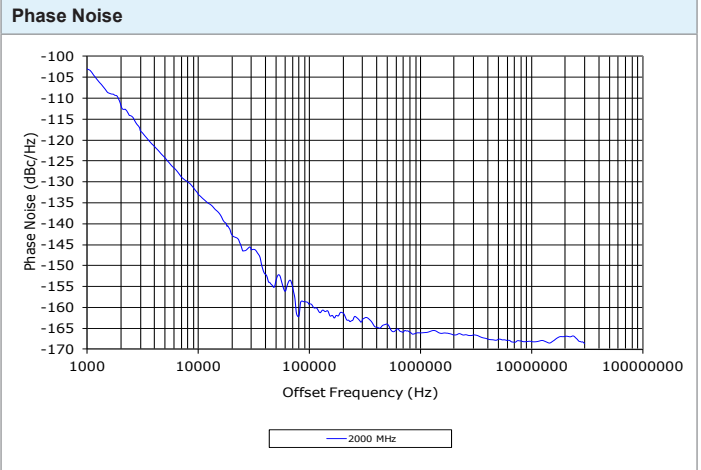
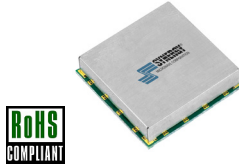
# VOLTAGE CONTROLLED SAW OSCILLATOR

## SURFACE MOUNT MODEL: HFSO2000-5L

2000 MHz

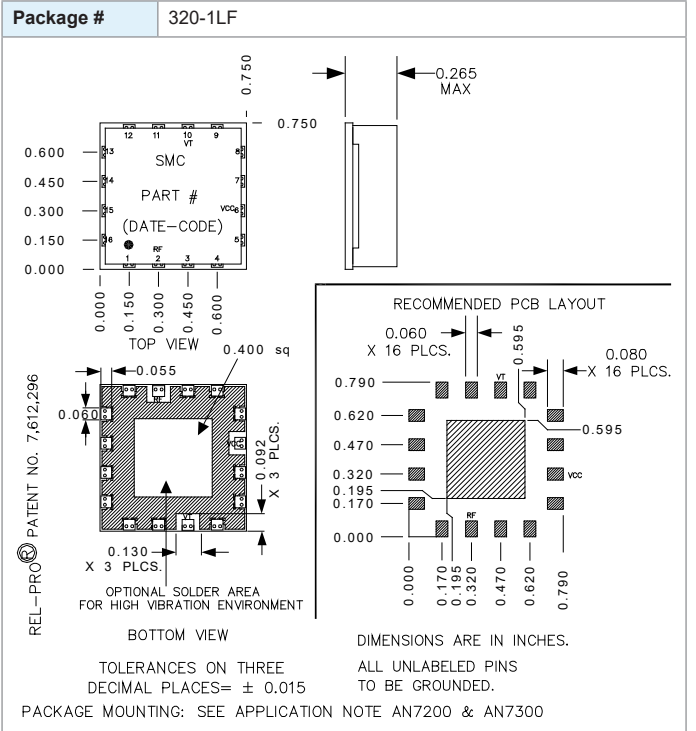
### FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology
- ▶ Buffered Output



### SPECIFICATIONS (Rev. C 03/10/17)

Frequency	2000 MHz	
Tuning Voltage	0.5 - 12 VDC	
Bias Voltage (Vcc)	+5 VDC (± 5%) @ 100 mA (Max.)	
Output Power	+6 dBm (Min.)	
Tuning Sensitivity	35 kHz/V (Typ.)	
Thermal Drift	300 kHz (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression		dBc (Typ.)
	2nd	20
3rd	20	
Sub-Harmonic Suppression	20 dBc (typ.)	
Frequency Pulling	15 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	20 kHz/V (Typ.) Vcc ±5%	
Tuning Port Capacitance	55 pF (Typ.)	
Phase Noise @ 25 °C	Offset	dBc/Hz (Typ.)
	@ 10 kHz	-133
	@ 100 kHz	-159
Operating Temperature Range	-20 to +70 °C	

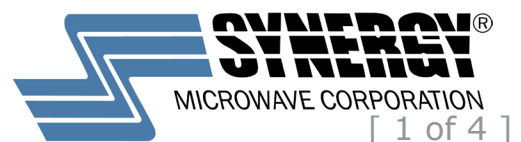


### Absolute Maximum Ratings

Storage Temp. Range	-30 to +85 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

Patent : <http://www.synergymwave.com/patents>

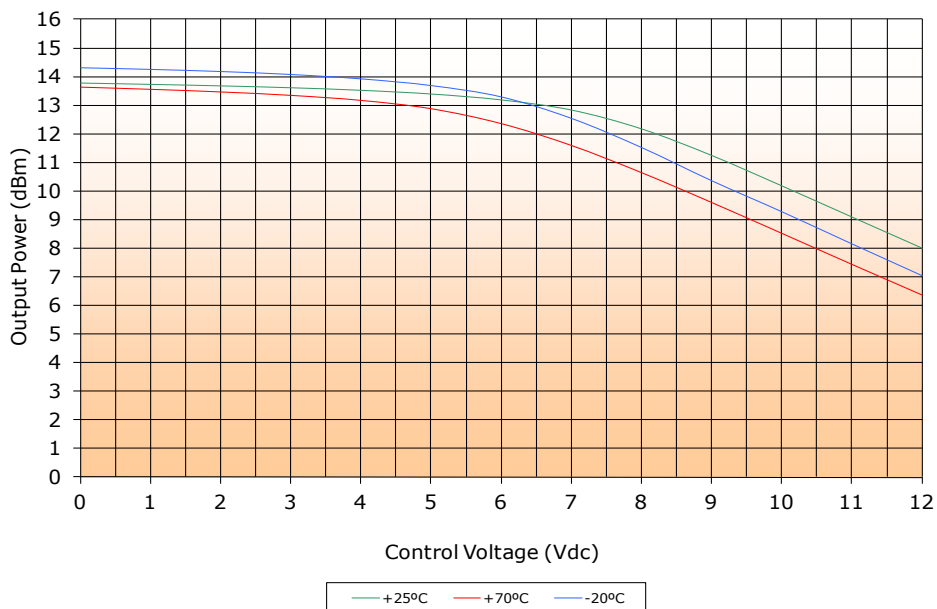
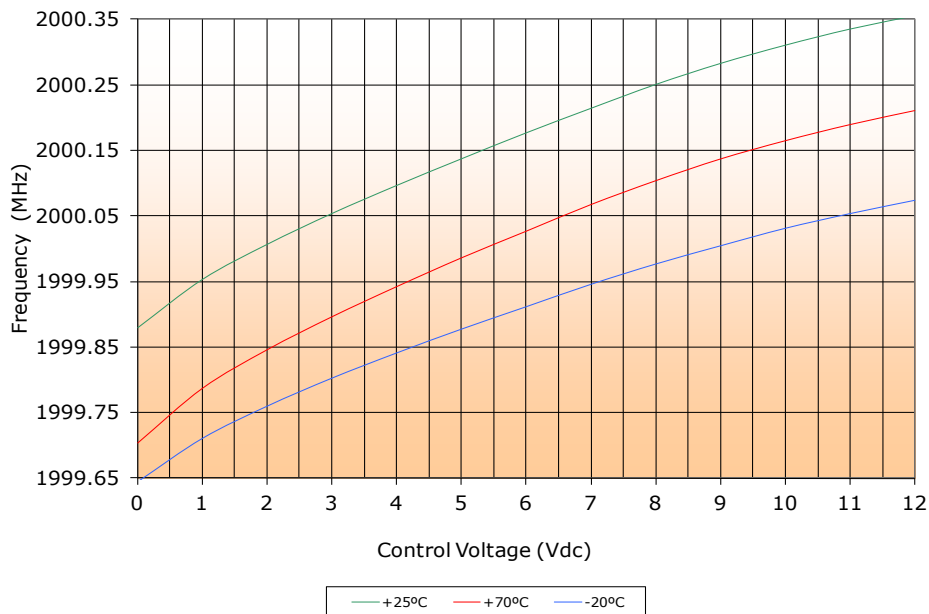
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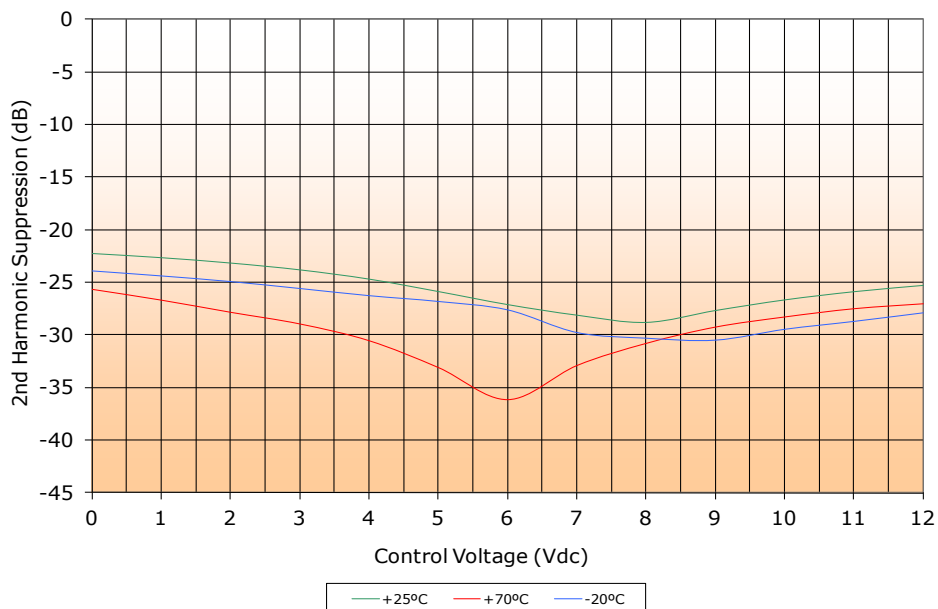
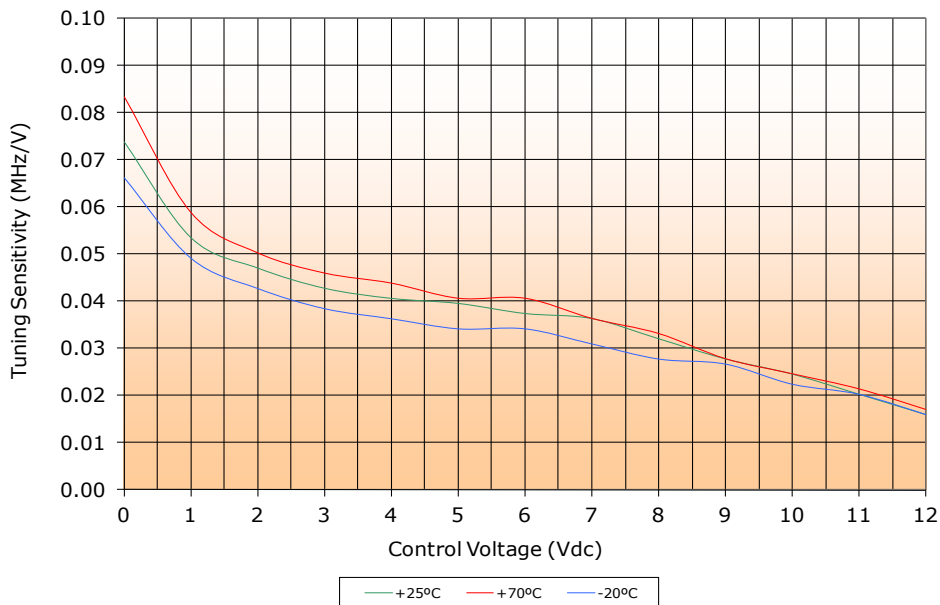
PERFORMANCE PLOTS



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2000 MHz

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