

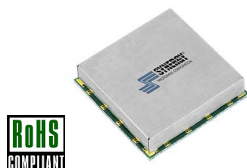
# VOLTAGE CONTROLLED SAW OSCILLATOR

## SURFACE MOUNT MODEL: HFSO1000-5L

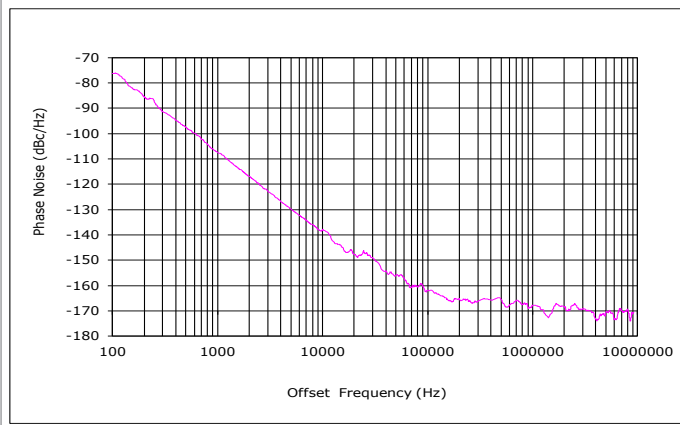
**1000 MHz**

### FEATURES:

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



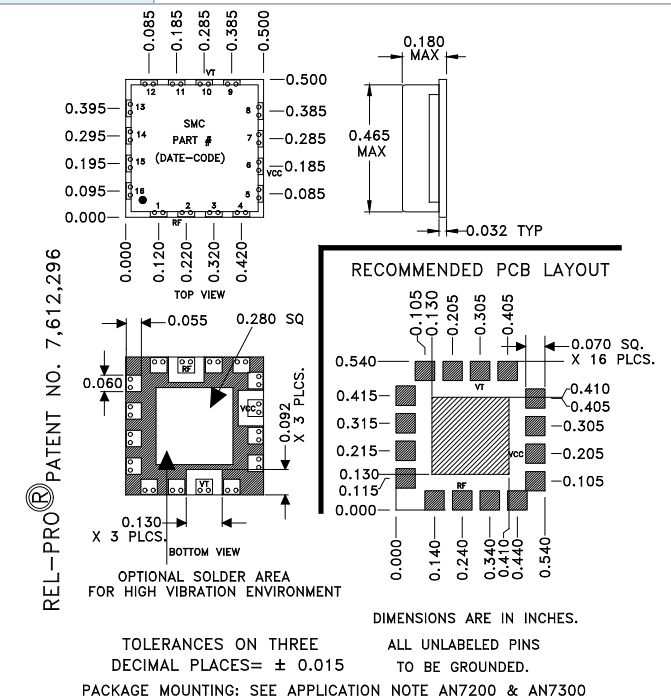
### Phase Noise



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

Frequency	1000 MHz	
Tuning Voltage	0.5 - 12 VDC	
Bias Voltage	+5 VDC (±5%) @ 35 mA (Max.)	
Output Power	+2 dBm (Min.)	
Tuning Sensitivity	20 kHz/V (Typ.)	
Thermal Drift	110 kHz (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression		dBc (Typ.)
	2nd	35
	3rd	25
Frequency Pulling	10 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	20 kHz/V (Typ.) Vcc ±5%	
Tuning Port Capacitance	130 pF (Typ.)	
Phase Noise @ 25 °C	Offset	dBc/Hz (Typ.)
	@ 10 kHz	-137
	@ 100 kHz	-157
Operating Temperature Range	-20 to +70 °C	

Package # 278LF



### 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>

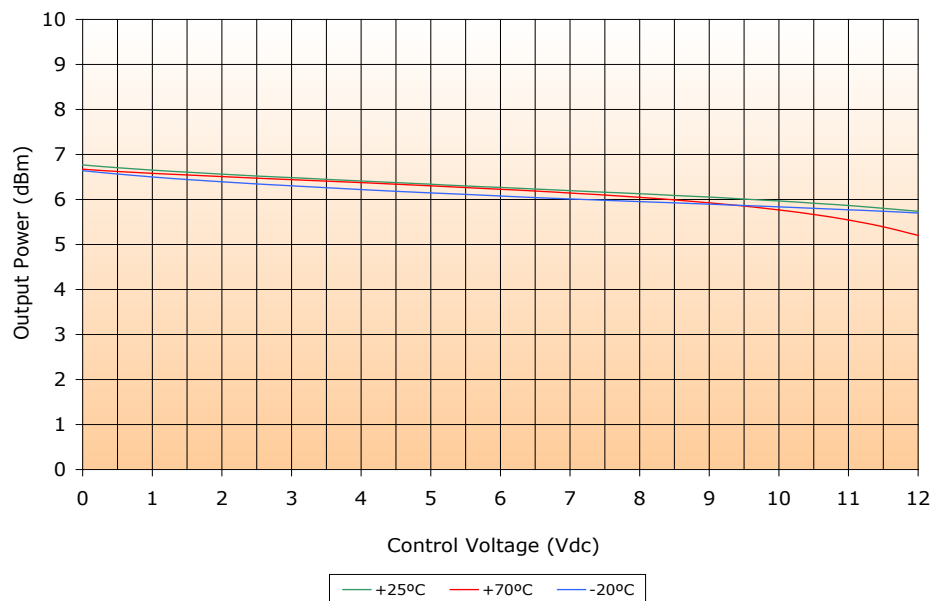
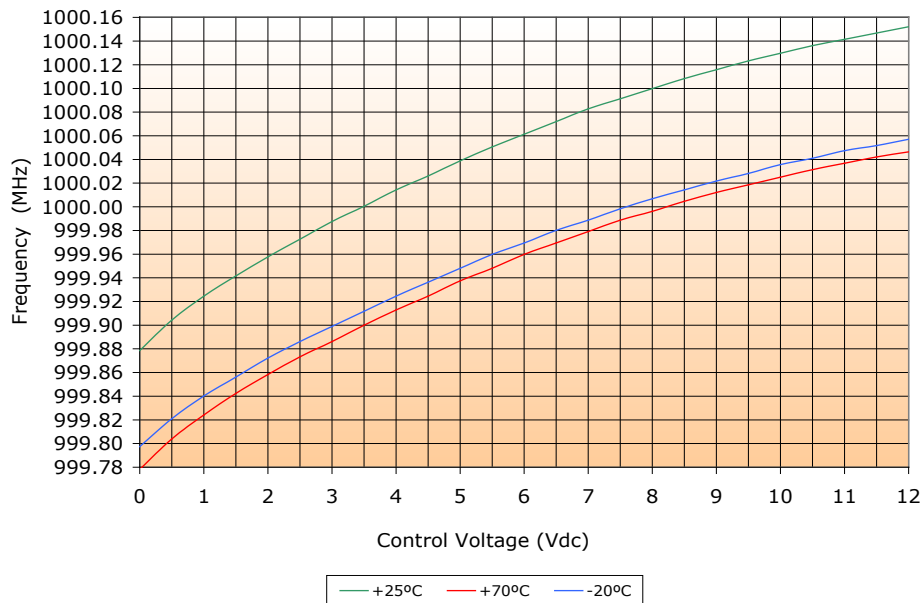
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 201 McLean Boulevard • Paterson, New Jersey 07504 USA  
 Tel: (973) 881-8800 • Fax: (973) 881-8361  
 E-Mail: [sales@synergymwave.com](mailto:sales@synergymwave.com) • Website: <http://www.synergymwave.com>  
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1000 MHz

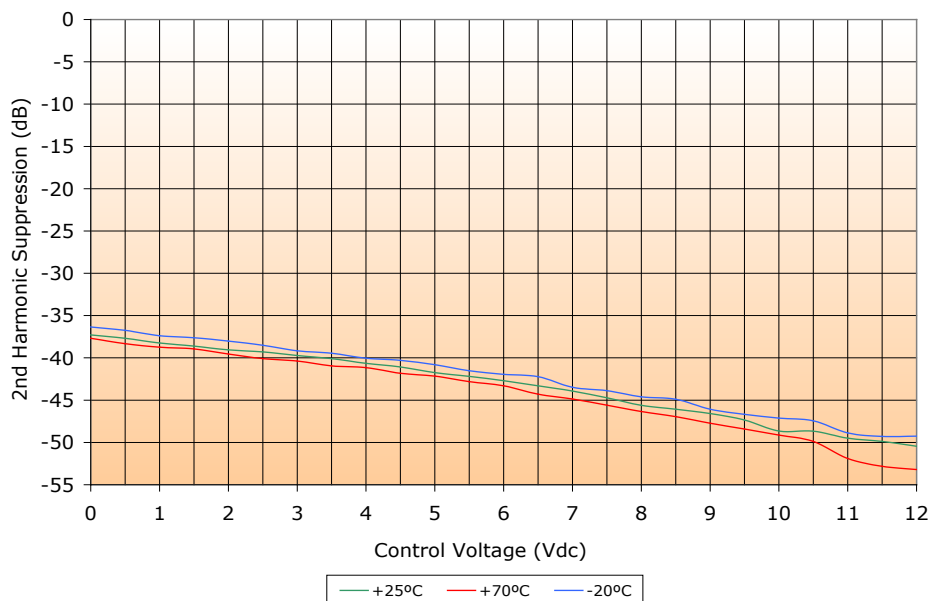
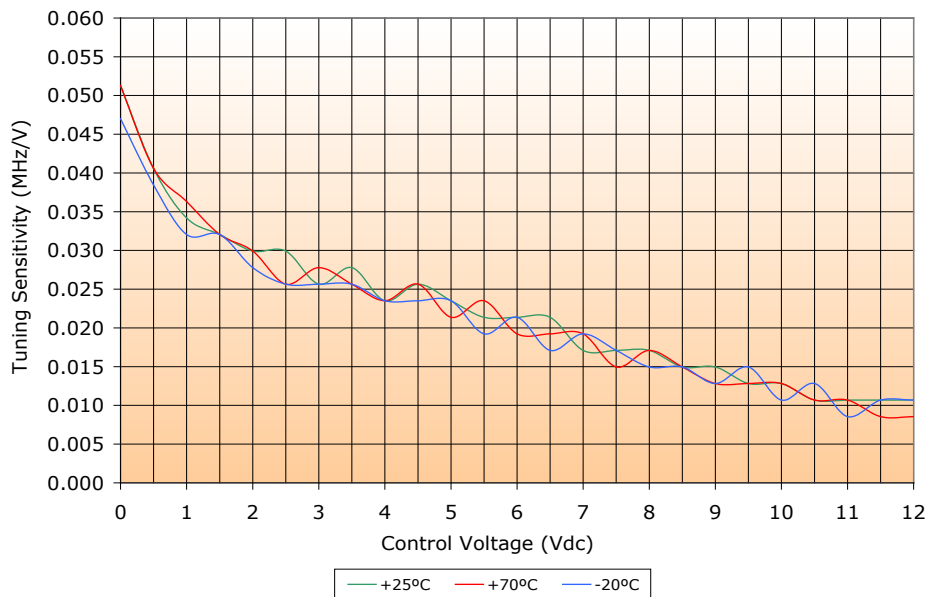
PERFORMANCE PLOTS



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1000 MHz

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