

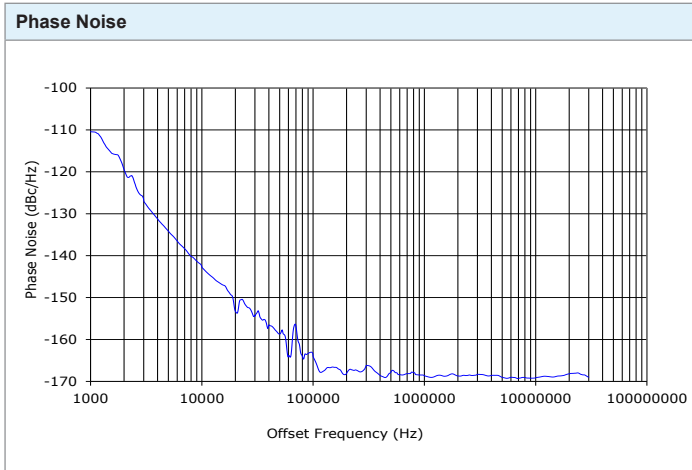
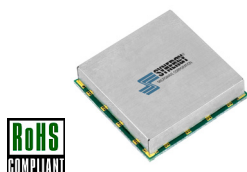
# VOLTAGE CONTROLLED SAW OSCILLATOR

## SURFACE MOUNT MODEL: HFSO1200-5

**1200 MHz**

### FEATURES:

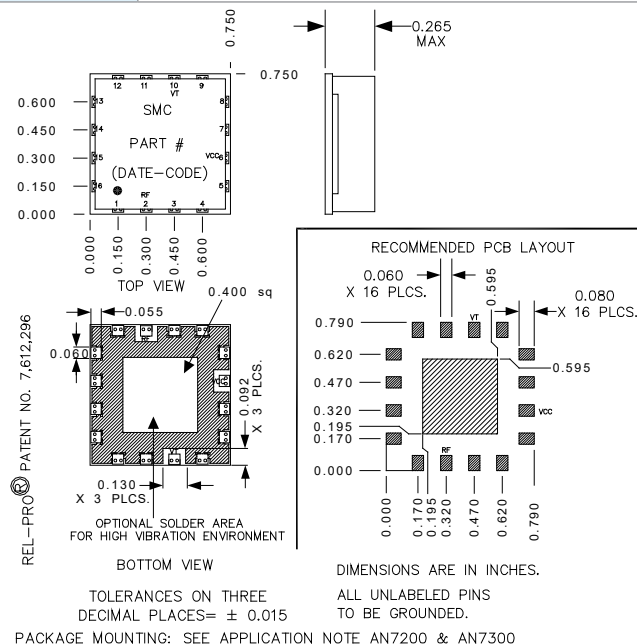
- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



### SPECIFICATIONS

Frequency	1200 MHz	
Tuning Voltage	0.5 - 12 VDC	
Bias Voltage	+5 VDC @ 100 mA (Max.)	
Output Power	+11 dBm (±2 dB)	
Tuning Sensitivity	50 kHz/V (Typ.)	
Thermal Drift	200 kHz (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression		dBc (Typ.)
	2nd	20
	3rd	20
Sub-harmonic Suppression	20 dBc (Typ.)	
Frequency Pulling	10 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	15 kHz/V (Typ.) Vcc ±5%	
Tuning Port Capacitance	140 pF (Typ.)	
Phase Noise @ 25 °C	Offset	dBc/Hz (Typ.)
	@ 10 kHz	-142
	@ 100 kHz	-164
Operating Temperature Range	-20 to +70 °C	

Package # 320-1LF



### Absolute Maximum Ratings

Storage Temp. Range	-40 to +85 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

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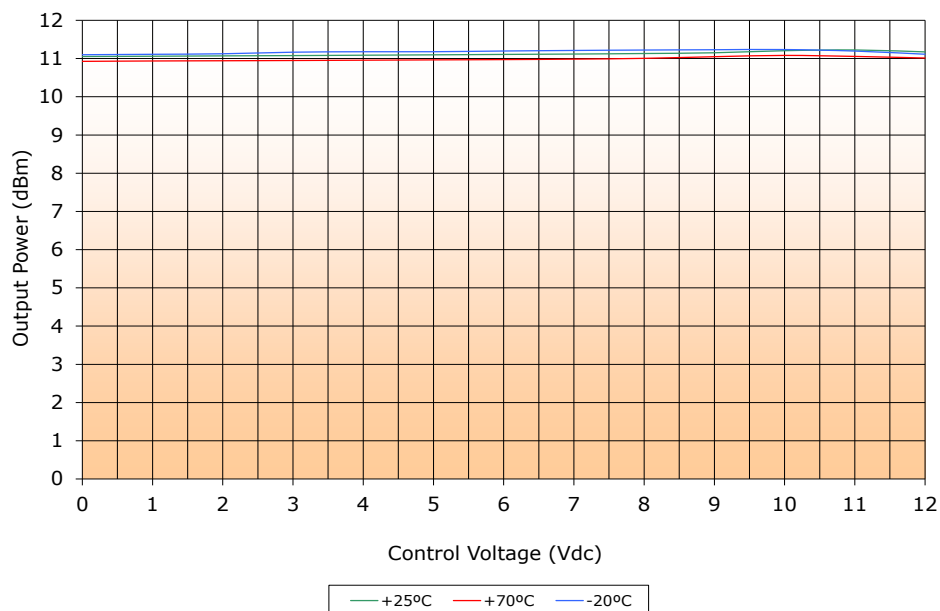
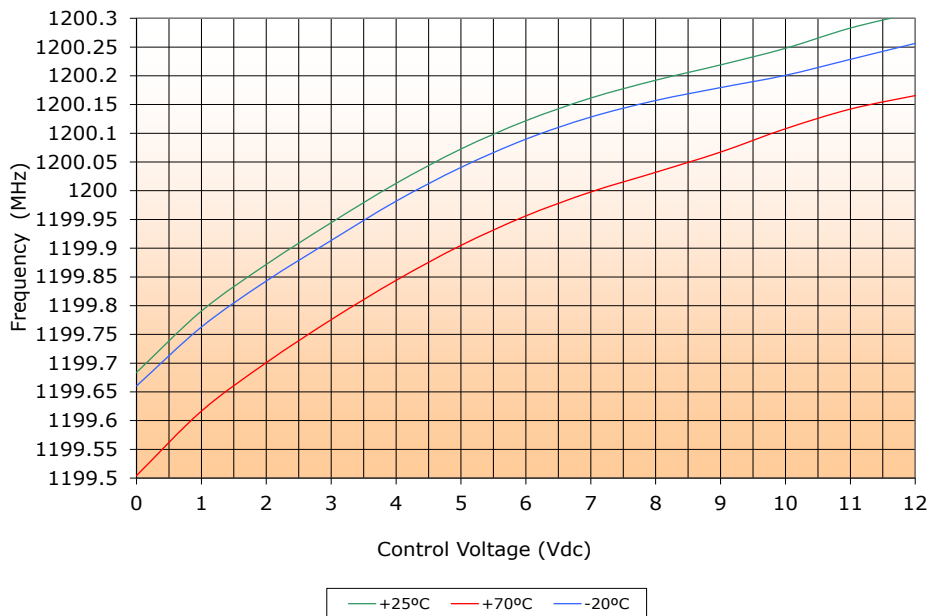


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PERFORMANCE PLOTS

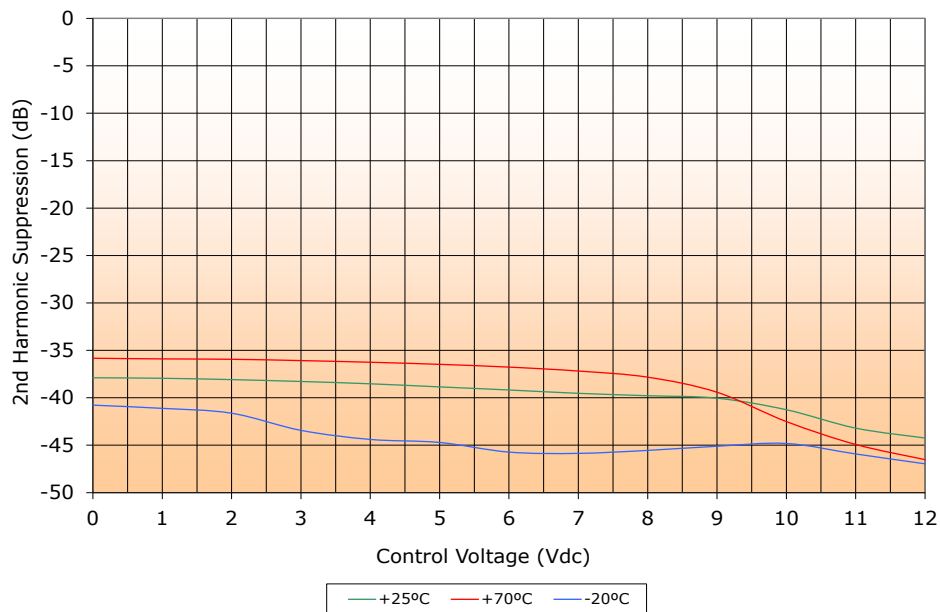
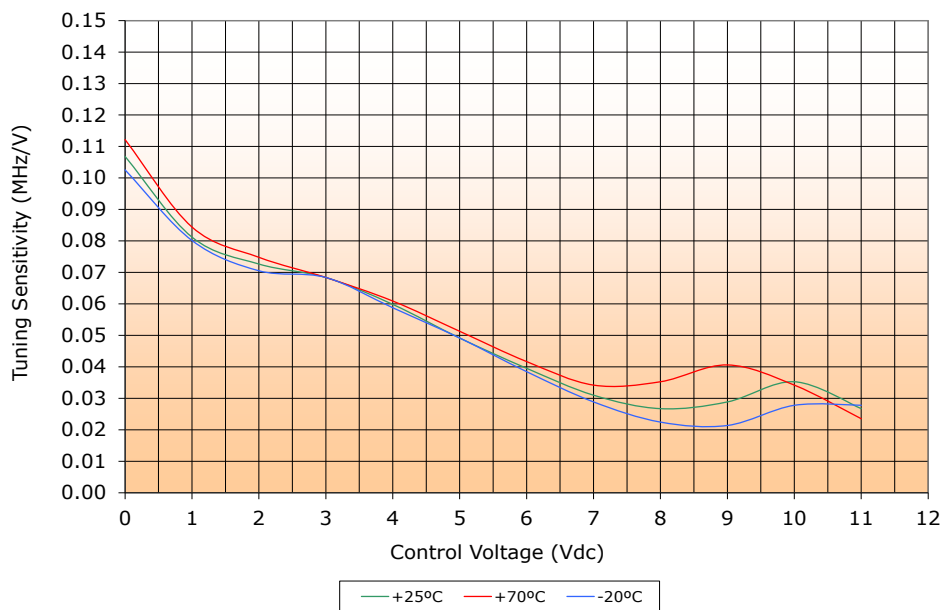


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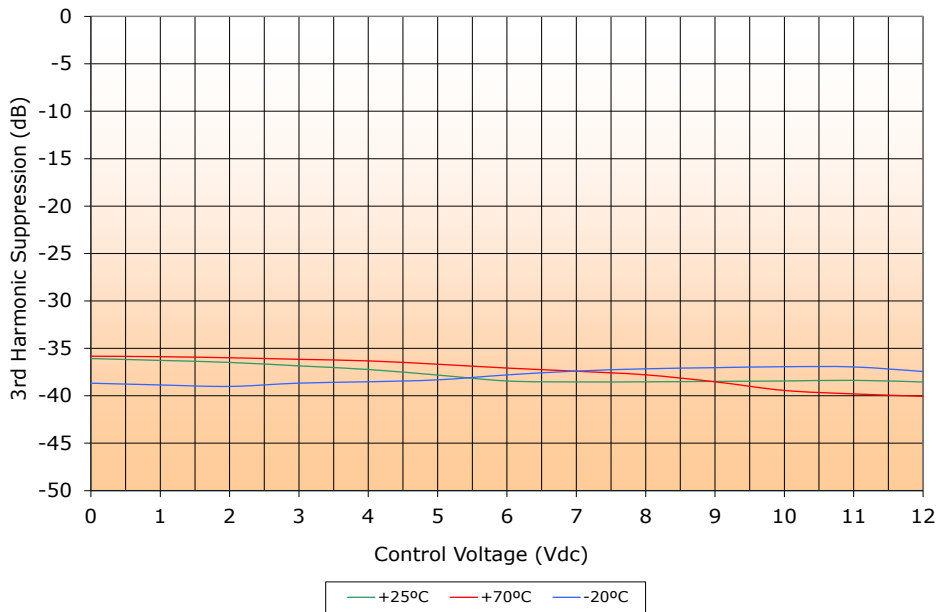
1200 MHz

PERFORMANCE PLOTS



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1200 MHz



PERFORMANCE PLOTS