

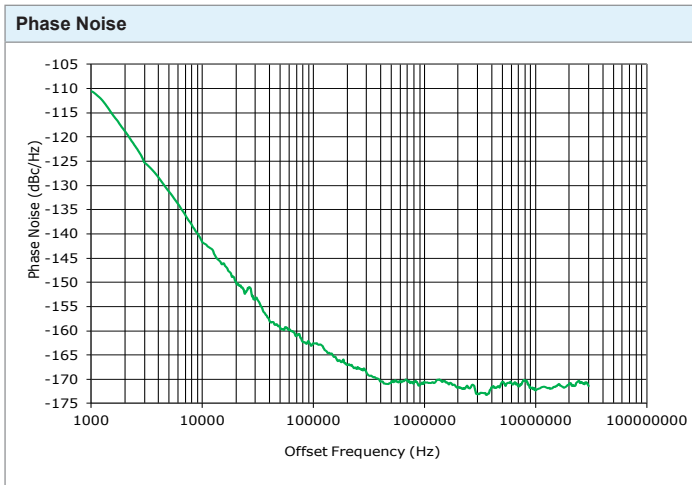
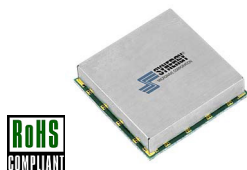
VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO800-5L

800 MHz

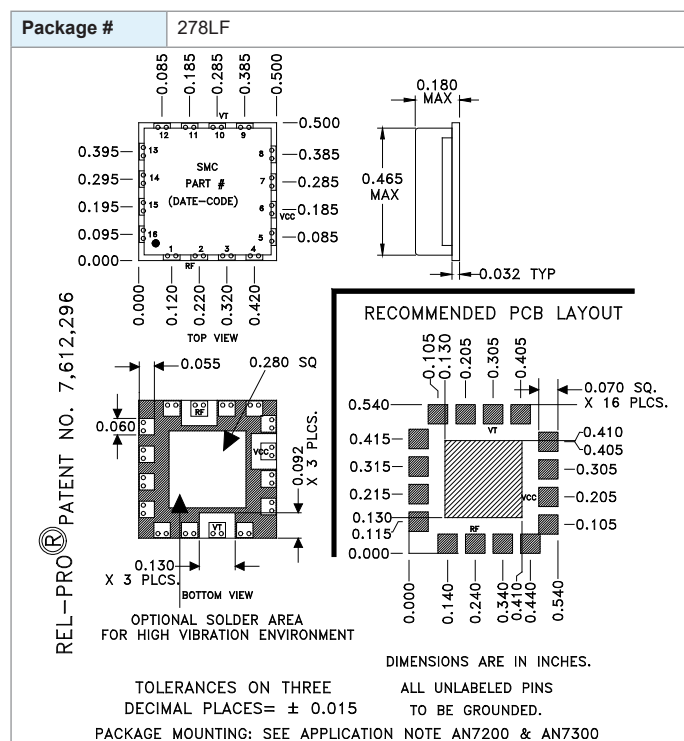
FEATURES:

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



SPECIFICATIONS (Rev. D 03/10/17)

Frequency	800 MHz	
Tuning Voltage	0.5 - 12 VDC	
Bias Voltage (Vcc)	+5 VDC (±5%) @ 20 mA (Max.)	
Output Power	+3 dBm (Min.)	
Tuning Sensitivity	18 kHz/V (Typ.)	
Thermal Drift	80 kHz (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	dBc (Typ.)	
	2nd	20
	3rd	23
Frequency Pulling	10 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	5 kHz/V (Typ.) Vcc ±5%	
Tuning Port Capacitance	125 pF (Typ.)	
Phase Noise @ 25 °C	Offset	
	@ 10 kHz	-142
	@ 100 kHz	-162
Operating Temperature Range	-20 to +70 °C	



Absolute Maximum Ratings

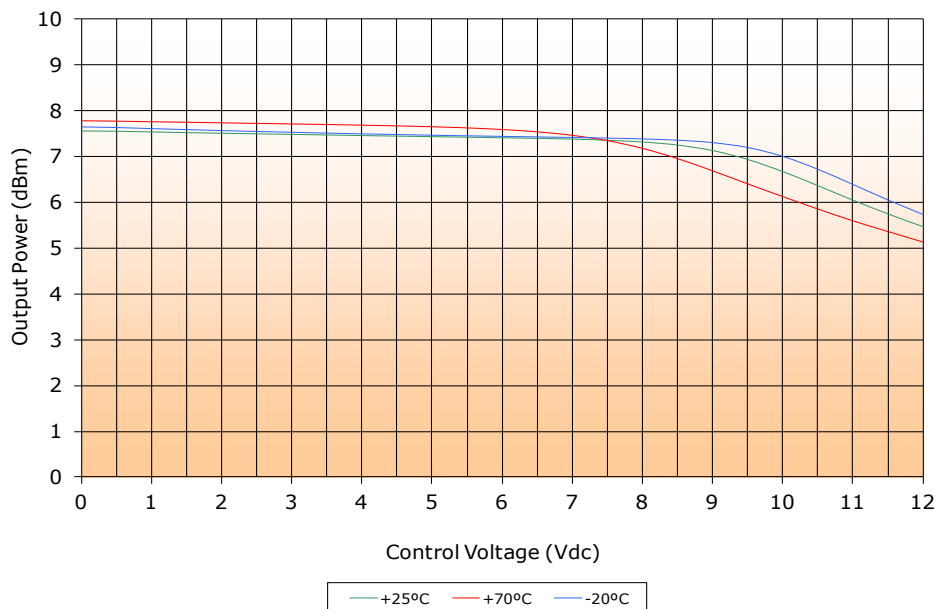
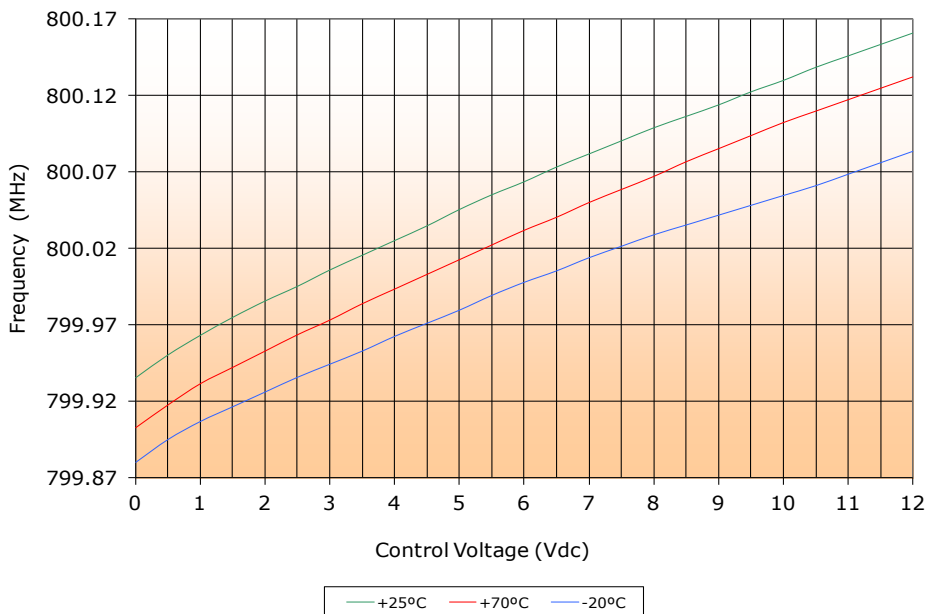
Storage Temp. Range	-40 to +85 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

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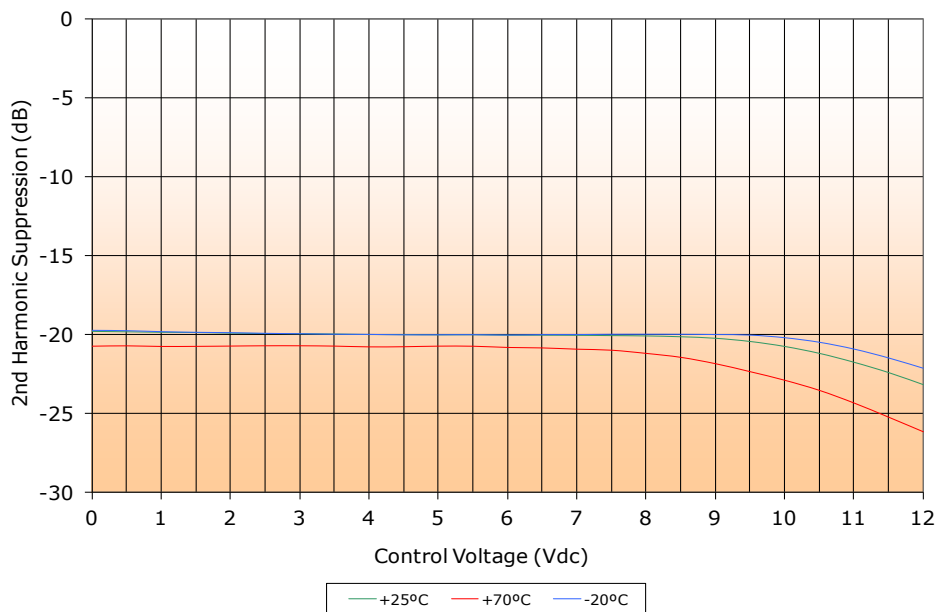
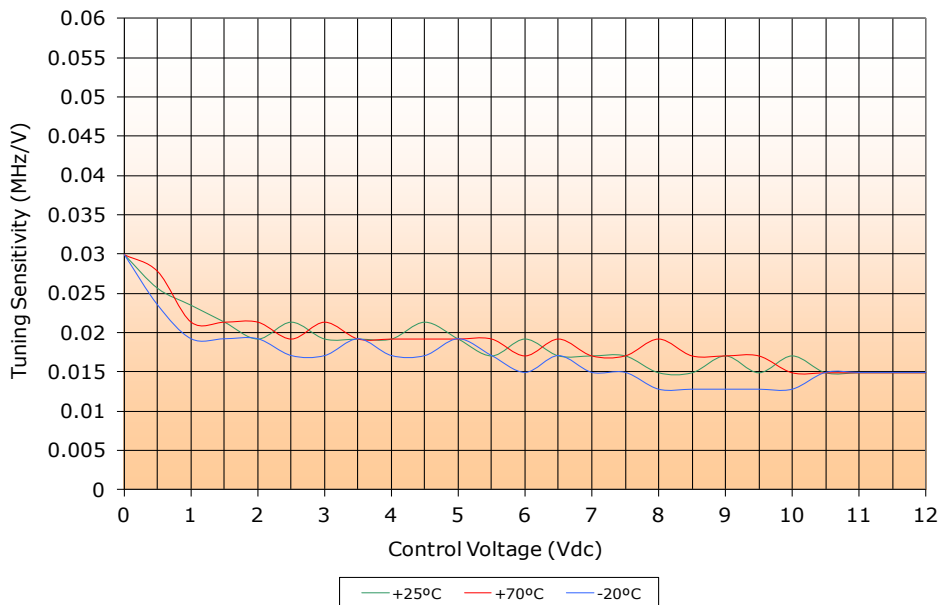
PERFORMANCE PLOTS



VOLTAGE CONTROLLED SAW OSCILLATOR SURFACE MOUNT MODEL: HFSO800-5L

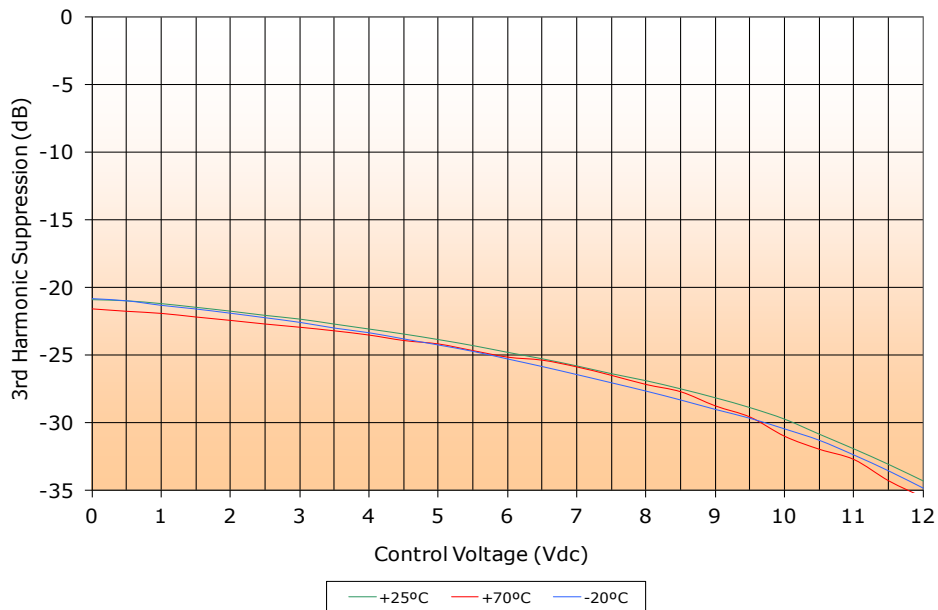
800 MHz

PERFORMANCE PLOTS



VOLTAGE CONTROLLED SAW OSCILLATOR SURFACE MOUNT MODEL: HFSO800-5L

800 MHz



PERFORMANCE PLOTS