

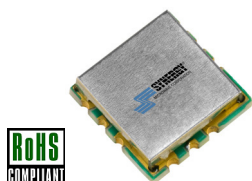
VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: MSO1000-3

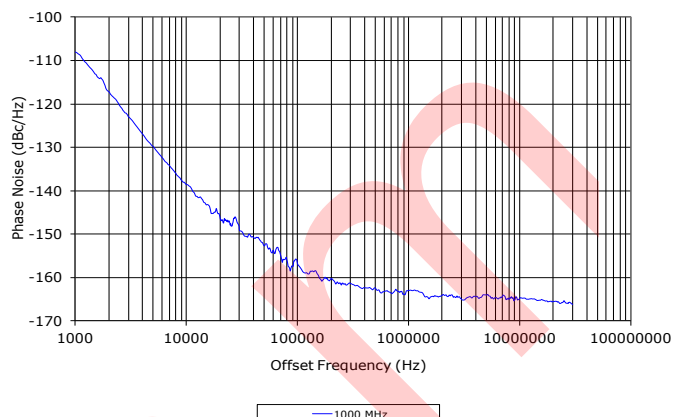
1000 MHz

FEATURES:

- ▶ Ultra-Low Phase Noise Performance
- ▶ Small Size Surface Mount
- ▶ Lead Free RoHs Compliant



Phase Noise



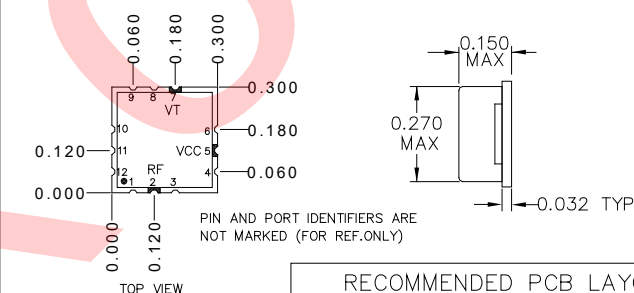
SPECIFICATIONS

Frequency	1000 MHz	
Tuning Voltage	0.5 - 14 VDC	
Bias Voltage	+3 VDC @ 35 mA (Max.)	
Output Power	+3 dBm (Min.)	
Tuning Sensitivity	15 kHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	dBc (Typ.)	
	2nd	15
	3rd	27
Frequency Pulling	13 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	13 kHz/V (Typ.)	
Tuning Port Capacitance	35 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-138
	100 kHz	-157
Operating Temperature Range	-20 to +70 °C	

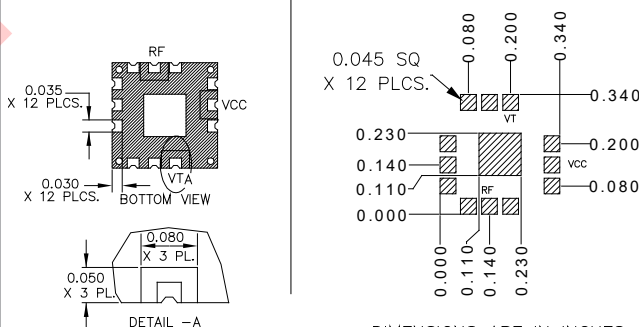
Absolute Maximum Ratings

Storage Temp. Range	-30 to +85 °C
Bias Voltage	+3.3 V
Tuning Voltage	+18 V
DC Voltage Applied to RF Out	±25 V

Package # 383



RECOMMENDED PCB LAYOUT



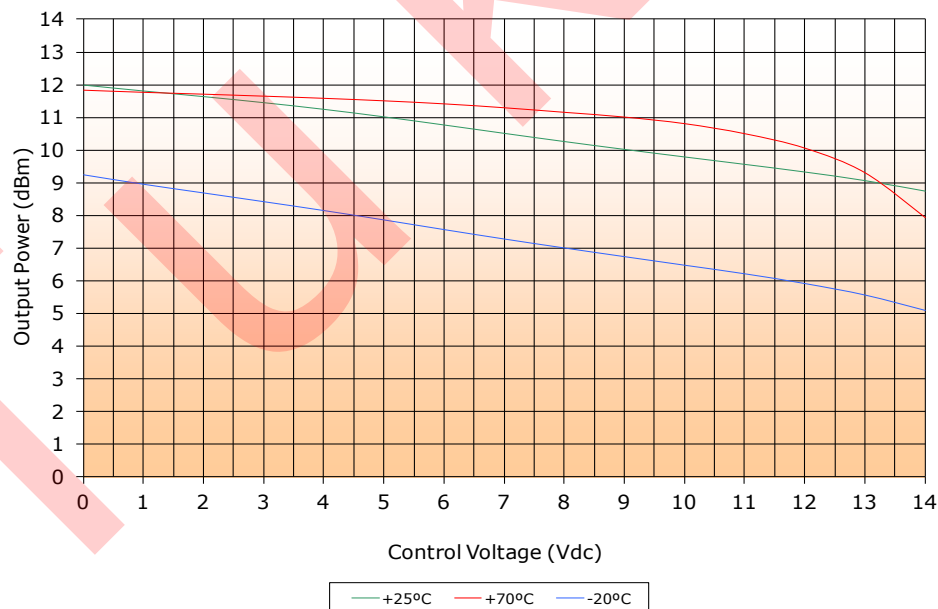
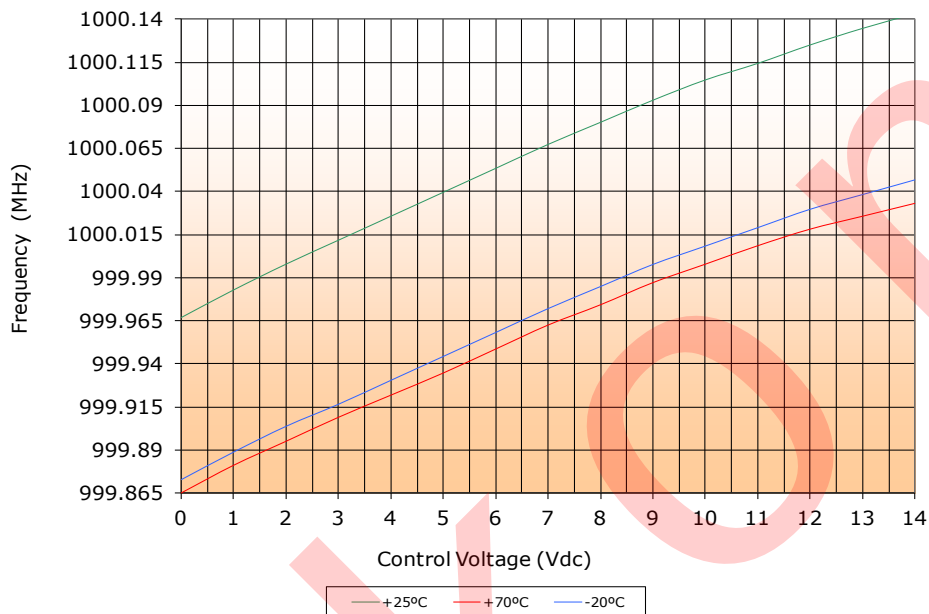
TOLERANCES ON THREE DECIMAL PLACES = ± 0.015
 ALL UNLABELED PINS TO BE GROUNDING.
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7302

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PERFORMANCE PLOTS

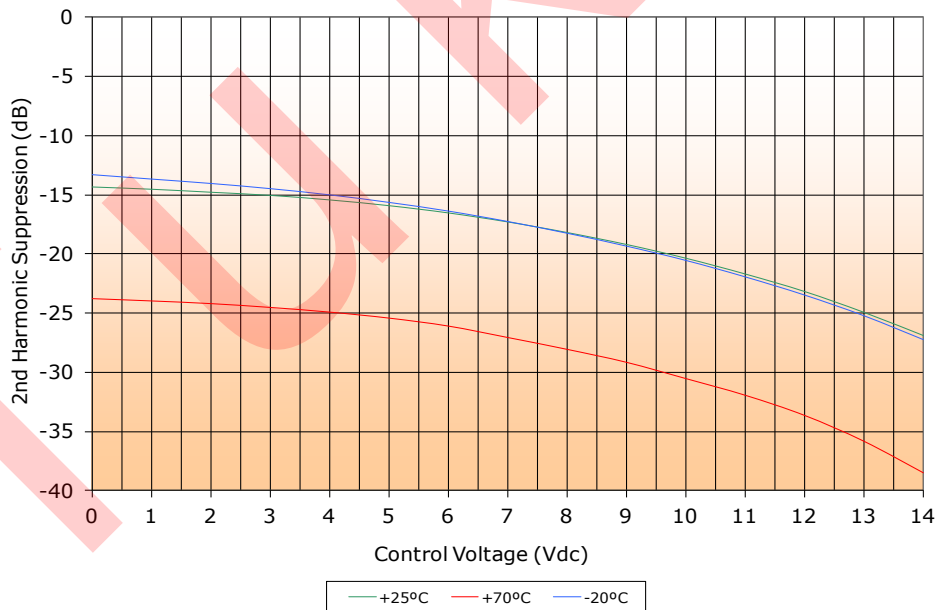
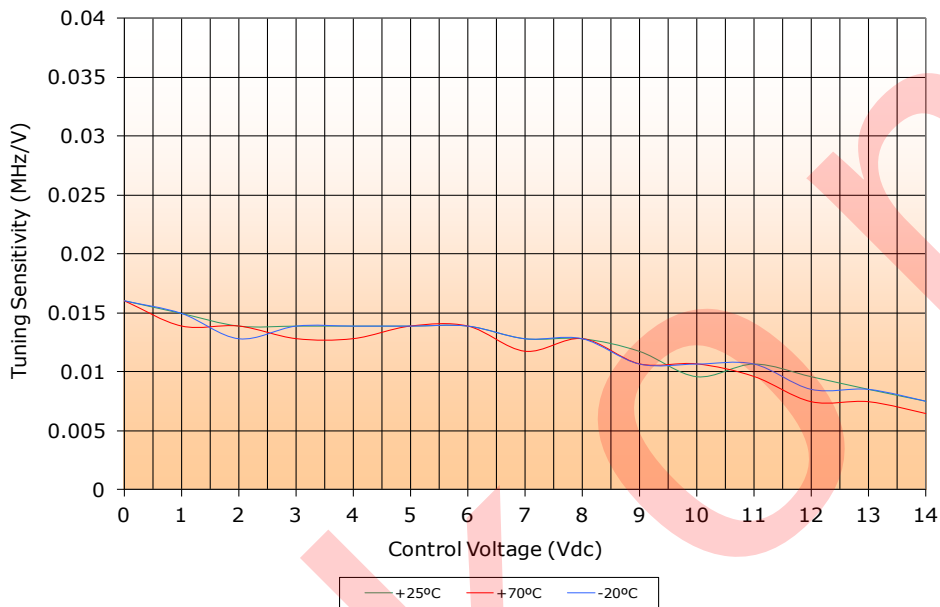


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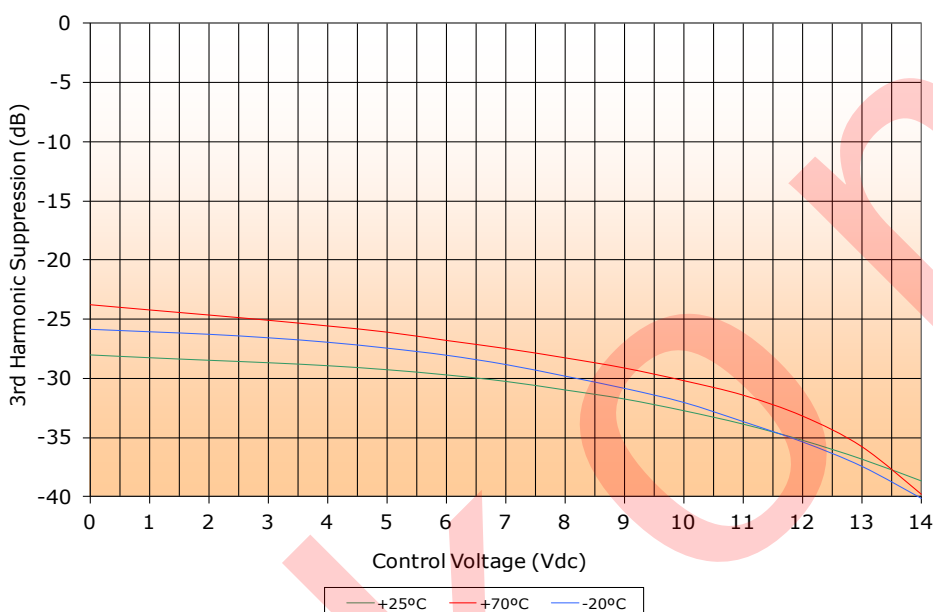
PERFORMANCE PLOTS



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PERFORMANCE PLOTS