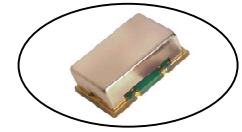
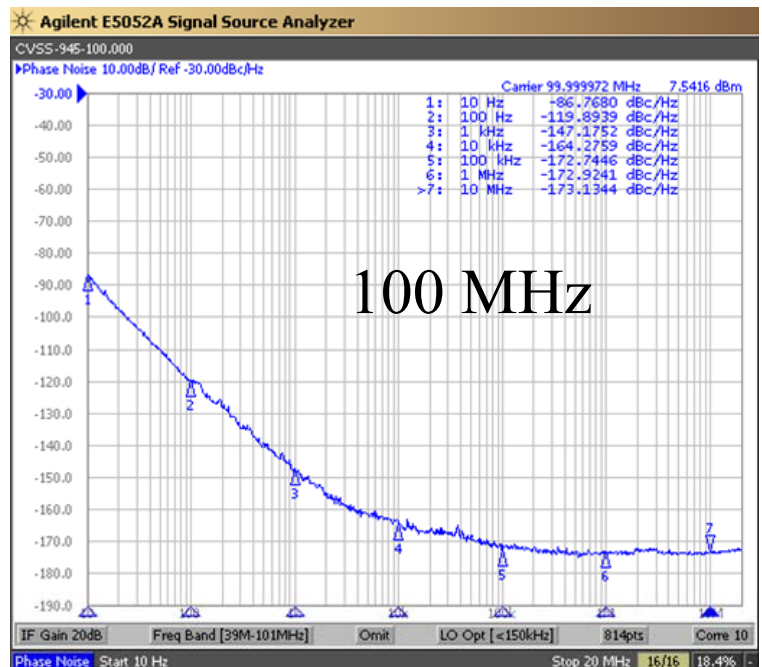
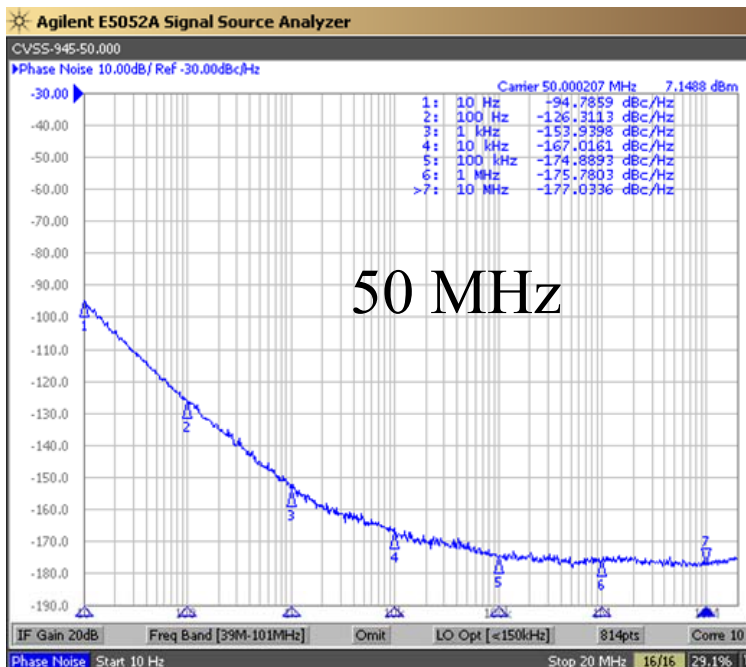


## CVSS-945 Model

9x14 mm SMD, 5.0V, SineWave



<b>Frequency Range:</b>	50 MHz to 125 MHz
<b>Temperature Range:</b>	0°C to 70°C
(Option X)	-40°C to 85°C
<b>Storage:</b>	-45°C to 90°C
<b>Input Voltage:</b>	5.0V ± 0.5V
<b>Control Voltage:</b>	2.5V ± 2.5V
<b>Settability At Nominal:</b>	2.5V ± 0.5V
<b>Tuning Sensitivity (Kv):</b>	+25 ppm/V Typical
<b>Input Current:</b>	30mA Max
<b>Output:</b>	True SineWave
Pullability APR:	±20ppm Min
Linearity:	±10% Max
Output Power:	+5 dBm Min, +7 dBm Typical
Start-up time:	2ms Typical, 5ms Max
Load:	50 Ω
<b>2nd Harmonic:</b>	-25 dBc Max
<b>Sub-harmonics:</b>	None
<b>Modulation BW:</b>	>10kHz @ -3dB
<b>Phase Noise Typical:</b>	
10Hz	-85 dBc/Hz
100Hz	-120 dBc/Hz
1kHz	-145 dBc/Hz
10kHz	-162 dBc/Hz
100kHz	-170 dBc/Hz
1MHz	-170 dBc/Hz
<b>Aging:</b>	<3ppm 1 <sup>st</sup> year, <1ppm every year thereafter





# Ultra Low Noise SineWave VCXO

## CVSS-945 Model 9x14 mm SMD, 5.0V, SineWave

### Crystek Part Number Guide

#### CVSS-945 X-125.000

#1 #2 #3 #4

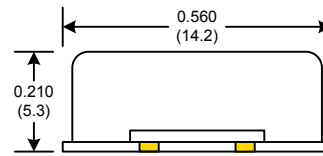
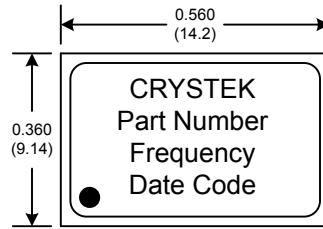
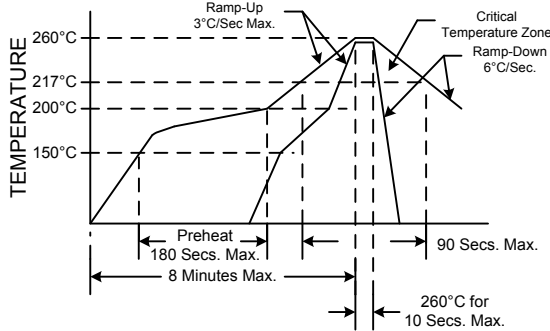
#1 Crystek 9x14 SMD SineWave VCXO  
#2 Model 945 = Ultra Low Noise 5.0V  
#3 Temp. Range: Blank = 0/70°C, X = -40/85°C  
#4 Frequency in MHz: 3 or 6 decimal places

Example:  
CVSS-945X-125.000 = 5.0V, -40/85°C, 125.000 MHz

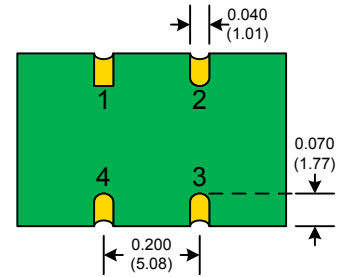
#### Standard Frequencies MHz

50.000  
80.000  
100.000  
122.880  
125.000

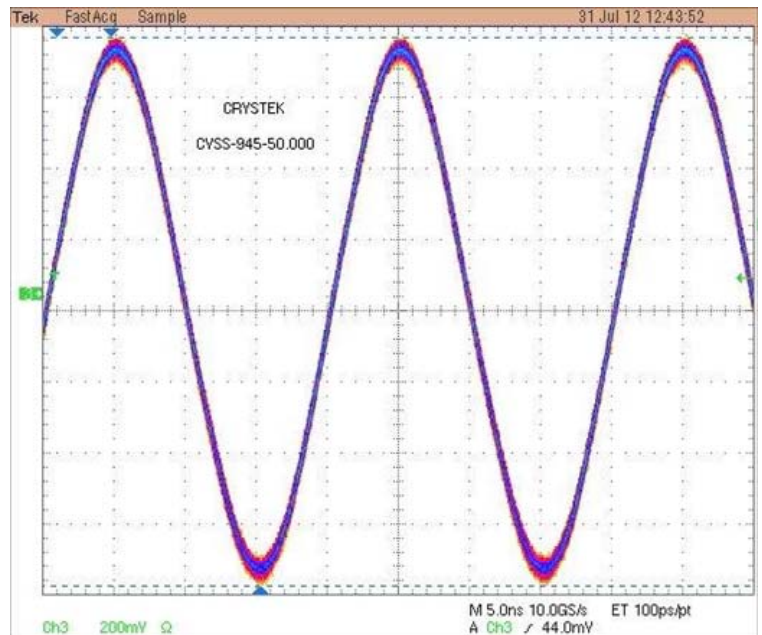
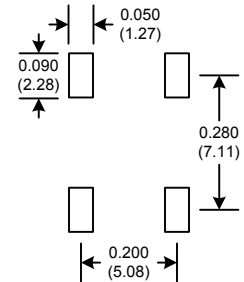
### RECOMMENDED REFLOW SOLDERING PROFILE



Pad	Connection
1	Volt Cont.
2	GND
3	OUT
4	Vdd



### SUGGESTED PAD LAYOUT



### Mechanical:

Shock:  
Solderability:  
Vibration:  
Solvent Resistance:  
Resistance to Soldering Heat:

MIL-STD-883, Method 2002, Condition B  
MIL-STD-883, Method 2003  
MIL-STD-883, Method 2007, Condition A  
MIL-STD-202, Method 215  
MIL-STD-202, Method 210, Condition I or J

### Environmental:

Thermal Shock:  
Moisture Resistance:

MIL-STD-883, Method 1011, Condition A  
MIL-STD-883, Method 1004

### Packaging:

Tape/Reel:

100ea, 250ea, 500ea 24mm Tape

CVSS-945 Rev. D

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