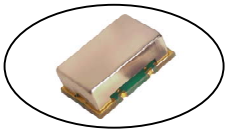
CRYSTEK CRYSTALS
A Division of Crystek Corporation

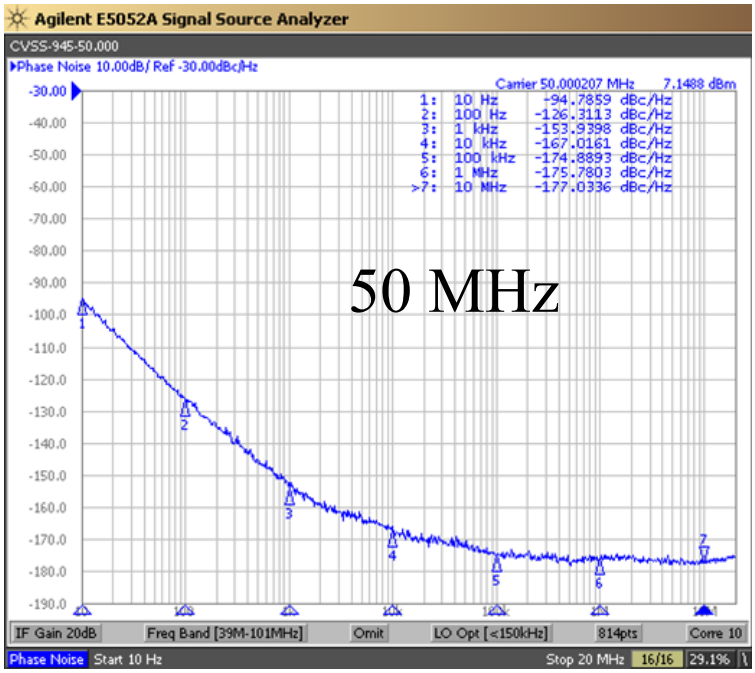
RoHS Compliant

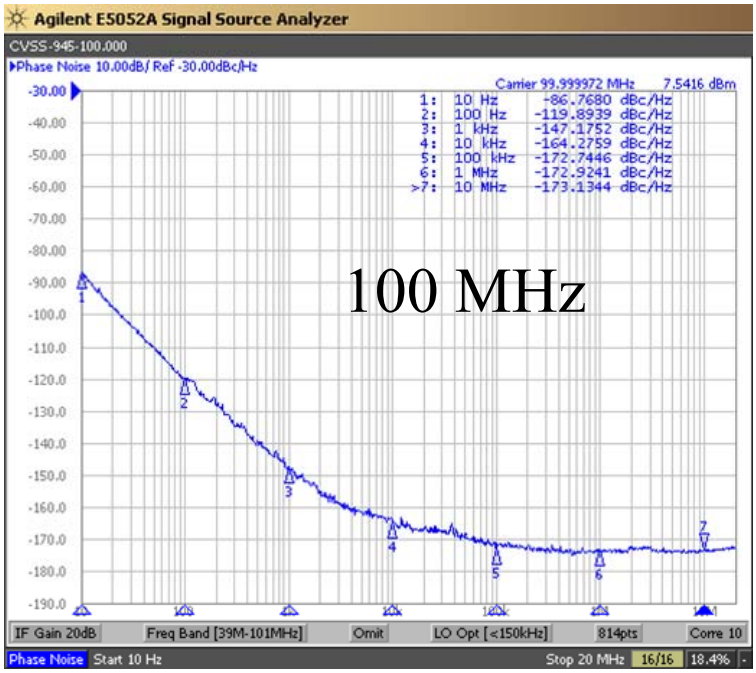
Ultra Low Noise SineWave VCXO

CVSS-945 Model
9×14 mm SMD, 5.0V, SineWave



Frequency Range:		50 MHz to 125 MHz
Temperature Range:		0°C to 70°C
	(Option X)	-40°C to 85°C
Storage:		-45°C to 90°C
Input Voltage:		5.0V ± 0.5V
Control Voltage:		2.5V ± 2.5V
Settability At Nominal:		2.5V ± 0.5V
Input Current:		30mA Max
Output:		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
2nd Harmonic:		-25 dBc Max
Sub-harmonics:		None
Modulation BW:		>10kHz @ -3dB
Phase Noise Typical:	10Hz	-85 dBc/Hz
(@100MHz)	100Hz	-120 dBc/Hz
	1kHz	-145 dBc/Hz
	10kHz	-162 dBc/Hz
	100kHz	-170 dBc/Hz
	1MHz	-170 dBc/Hz
Aging:		<3ppm 1st year, <1ppm every year thereafter





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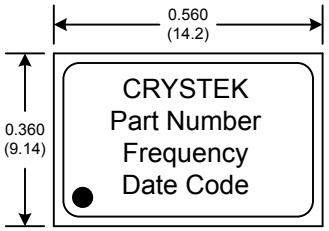
Crystek Part Number Guide

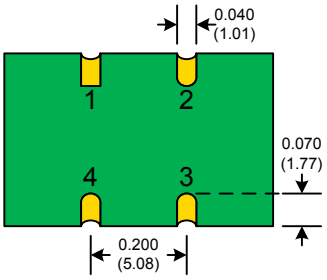
CVSS-945 X-125.000
#1 #2 #3 #4

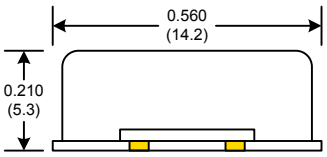
#1 Crystek 9×14 SMD SineWave VCXO
#2 Model 945 = Ultra Low Noise 5.0V
#3 Temp. Range: Blank = 0/70°C, X = -40/85°C
#4 Frequency in MHz: 3 or 6 decimal places

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

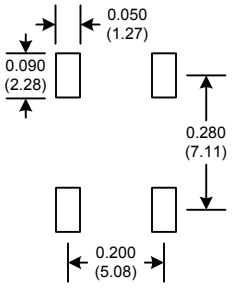
Standard Frequencies MHz
50.000
80.000
100.000
122.880
125.000



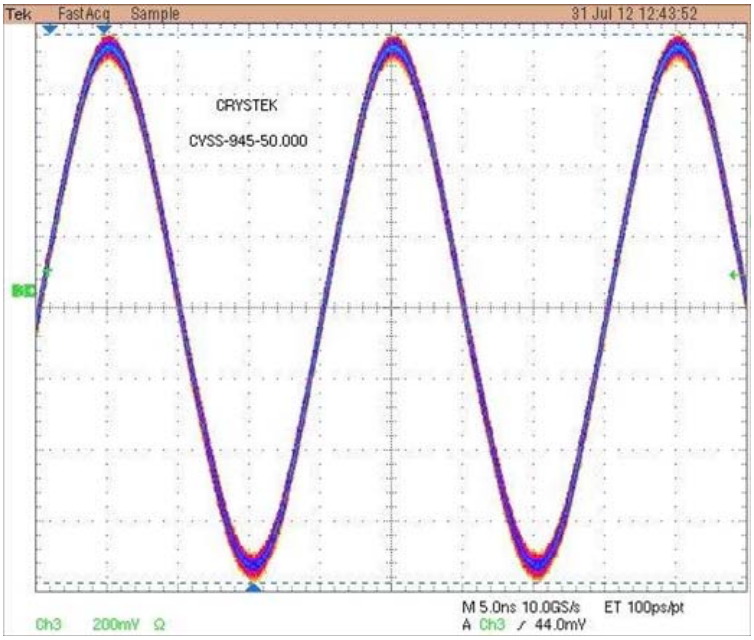




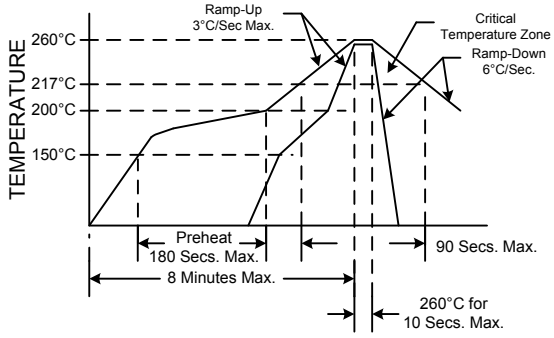
SUGGESTED PAD LAYOUT



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



RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

Mechanical:

Shock:	MIL-STD-883, Method 2002, Condition B
Solderability:	MIL-STD-883, Method 2003
Vibration:	MIL-STD-883, Method 2007, Condition A
Solvent Resistance:	MIL-STD-202, Method 215
Resistance to Soldering Heat:	MIL-STD-202, Method 210, Condition I or J

Environmental:

Thermal Shock:	MIL-STD-883, Method 1011, Condition A
Moisture Resistance:	MIL-STD-883, Method 1004

Packaging:

Tape/Reel:	100ea, 250ea, 500ea 24mm Tape

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