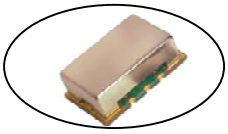
CRYSTEK CRYSTALS
A DIVISION OF CRYSTEK CORPORATION

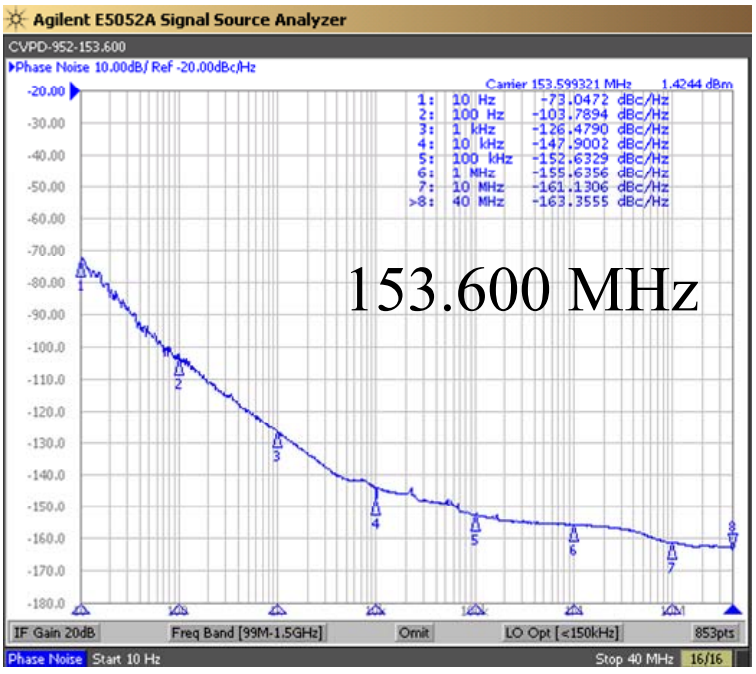
RoHS Compliant

Ultra-Low Phase Noise Voltage Controlled Crystal Oscillator

Part Number CVPD-952
9×14 mm SMD, **3.3V, LVPECL**



Frequency Range:		131.000 MHz to 200.000 MHz
Frequency Pulling:		±20 ppm APR Min*
Temperature Range:		0°C to 70°C (standard)
(Option X):		-40°C to 85°C
Storage:		-45°C to 90°C
Input Voltage:		3.3 V ±0.3 V
Control Voltage:		1.65 V ±1.65 V
Input Current:		92 mA Typical, 100 mA Max
Output:		LVPECL
Symmetry:		45/55% Max @ zero crossing point
Rise/Fall Time:		2ns Max (20% to 80%)
Linearity:		±10% Max
Load: Terminated to Vcc -2V into 50 ohms		
Logic:		"0" = 1.43V Min, 1.68V Max
		"1" = 2.05V Min, 2.48V Max
Disable Time:		200 µs Max
Enable Time:		200 µs Max
Phase Jitter (RMS): 12 kHz to 20 MHz		75 fs Typical for 153.6 variant
Phase Noise (Typical): 1 Hz:		-40 dBc/Hz
10 Hz:		-70 dBc/Hz
100 Hz:		-100 dBc/Hz
1 kHz:		-130 dBc/Hz
10 kHz:		-148 dBc/Hz
100 kHz:		-150 dBc/Hz
Sub-Harmonic @ Fo/2:		-35 dBc Max
Aging:		<3 ppm 1st year, <1 ppm every year thereafter



Rev: F
Date: 18-Jan-2017
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* APR= Absolute Pulling Range inclusive of all conditions

Specifications subject to change without notice.

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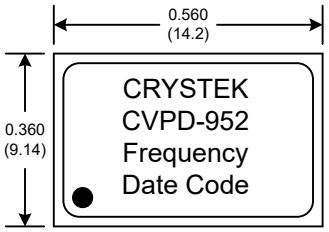
Crystek Part Number Guide

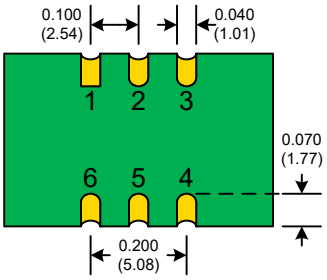
CVPD-952 X-148.500
#1 #2 #3 #4

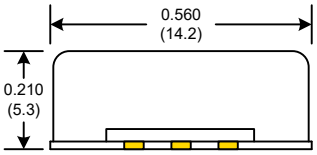
#1 Crystek 9×14 SMD LVPECL VCXO
#2 Model 952 = Ultra Low Noise 3.3V
#3 Temp. Range: Blank = 0/70°C, X = -40/85°C
#4 Frequency in MHz: 3 or 6 decimal places

Example:
CVPD-952X-153.600 = 3.3V, -40/85°C, 153.600 MHz

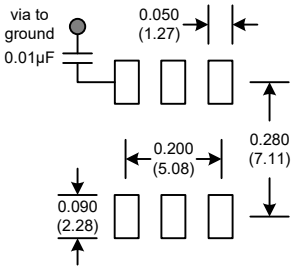
Available Frequencies MHz
148.351600
148.500
153.600







SUGGESTED PAD LAYOUT



PIN	Function
1	Control Volt
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

RECOMMENDED REFLOW SOLDERING PROFILE
900034 (See App Note listed on website)
http://www.crystek.com/specification/reflow/900034.pdf

Tri-State Function	
Tri-State Pin	Output pin
Open	Active
"1" level 2.0V Min	Active
"0" level 0.8V Max	High Z

Applications:

HD Video Broadcast Equipment

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