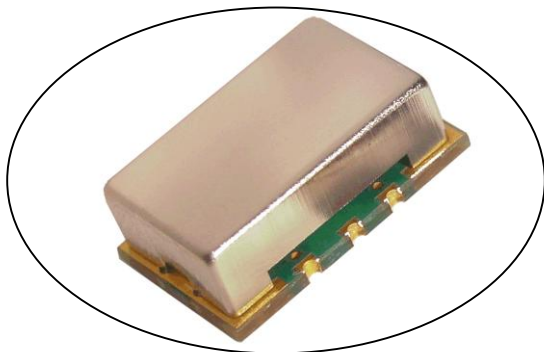


CVPD-940 Model
9x14 mm SMD, 3.3V, LVPECL

Frequency Range:	50 MHz to 212.500 MHz
Temperature Range:	0°C to 70°C
(Option X)	-40°C to 85°C
Storage:	-45°C to 90°C
Input Voltage:	3.3V ±0.3V
Control Voltage:	1.65V ±1.65V
Settability At Nominal:	1.65V ±0.25V
Input Current:	88mA Max
Output:	Differential LVPECL
Symmetry:	49/51% Typical, 45/55% Max @ zero crossing point
Rise/Fall Time:	550pSec Max (20% to 80%)
Pullability APR:	±50ppm Min
Linearity:	±10% Max
Load: Terminated to Vdd-2V into 50 ohms	
Logic "1" Level:	Vcc-0.96V Min, Vcc-0.81V Max
Logic "0" Level:	Vcc-1.85V Min, Vcc-1.65V Max
Disable Time:	100nSec Max
Start-up time:	2mSec Typical, 10mSec Max
Modulation BW:	>10kHz @ -3dB
Sub-harmonics:	none
Period Jitter: (20,000 periods)	<5ps RMS (1-sigma) Max
Phase Jitter: 12kHz~20MHz	<1ps RMS (1-sigma) Max,
50kHz~80MHz	<1ps RMS (1-sigma) Max,
Phase Noise Max:	
100Hz	-80 dBc/Hz
1kHz	-108 dBc/Hz
10kHz	-132 dBc/Hz
100kHz	-140 dBc/Hz
Aging:	<3ppm 1 st year, <2ppm every year thereafter



Applications:

10 Gigabit Ethernet
OC48: Forward Error Correction
Broadband Networks
SONET/SDH/DWD
ATM
Network/switch
Telecom

Designed using FR5 PCB & HFF crystal technology to provide a Low Noise, Low Jitter Voltage Controlled Crystal Oscillator solution at a competitive price.

Specifications subject to change without notice.

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Differential LVPECL VCXO



CVPD-940 Model 9x14 mm SMD, 3.3V, LVPECL

Crystek Part Number Guide

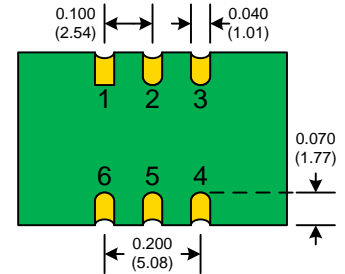
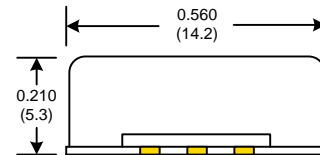
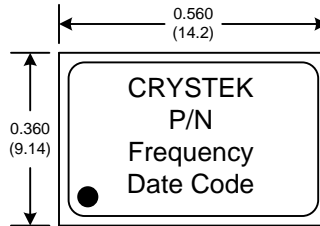
CVPD - 940 - X - 155.520

- #1 Crystek SMD PECL VCXO
- #2 Model 940 = 9x14 High Frequency 3.3V
- #3 Temp. Range: Blank = 0/70°C, X = -40/85°C
- #4 Frequency in MHz: 3 or 6 decimal places

Example:
CVPD-940X-155.520 = 3.3V, -40/85°C, 155.520 MHz

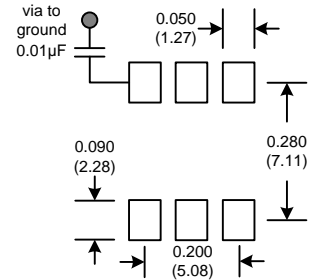
Standard Frequencies MHz

74.175800	161.132800
74.250	166.628600
77.760	167.331700
155.520	212.500
156.250	



PIN	Function
1	Vcont
2	E/D
3	GND
4	OUT
5	COU
6	Vdd

SUGGESTED PAD LAYOUT



RECOMMENDED REFLOW SOLDERING PROFILE 900034 (See App Note listed on website)

<http://www.crystek.com/specification/reflow/900034.pdf>

Enable/Disable Function	
Pin 2	Output pin
Open	Active
"0" level Vcc-1.620V Max	Active
"1" level Vcc-1.025V Min	Disabled
Disabled State: Pin 4 will assume a fixed level of logic "0" Pin 5 will assume a fixed level of logic "1"	

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

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