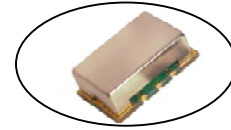


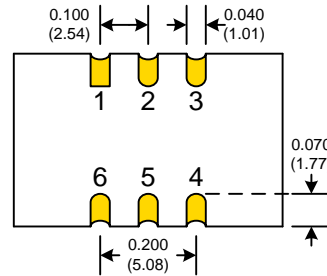
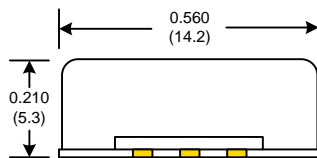
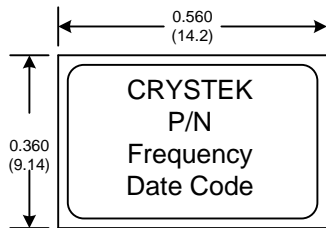
Differential LVPECL Clock Oscillator

CCPD-920 Model 9x14 mm SMD, 3.3V, LVPECL

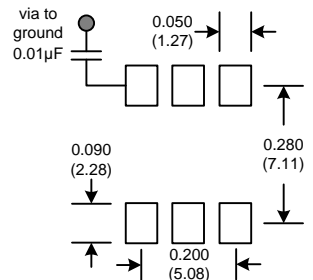
Frequency Range:	50MHz to 150MHz
Frequency Stability:	±20, ±25, ±50ppm (0°C to 70°C) ±25, ±50ppm (-40°C to 85°C)
Temperature Range:	0°C to 70°C -40°C to 85°C
	(Option X)
Storage:	-55°C to 120°C
Input Voltage:	3.3V ± 0.3V
Input Current:	88mA Max
Output:	Differential LVPECL
Symmetry:	45/55% Max @ 50% Vdd
Rise/Fall Time:	1ns Max @ 20% to 80% Vdd
Linearity:	± 10% Max
Logic:	Terminated to Vdd-2V into 50 ohms
	Logic "0" = Vcc-1.85V Min, Vcc-1.62V Max
	Logic "1" = Vcc-1.02V Min, Vcc-0.81V Max
Disable Time	200ns Max
Start-up Time	1ms Typ., 2ms Max
Phase Jitter:	12kHz to 80MHz 0.5psec Typ., 1psec RMS Max
Phase Noise:	10Hz -65dBc/Hz Typical
	100Hz -98dBc/Hz Typical
	1kHz -125dBc/Hz Typical
	10kHz -140dBc/Hz Typical
	100kHz - 100MHz -145dBc/Hz Typical
Aging:	<3ppm 1st/yr, <1ppm every year thereafter



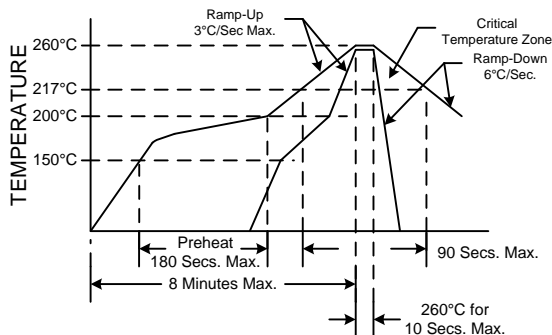
Designed to meet today's requirements for 3.3V Differential LVPECL applications. The CCPD-920 is produced using our cost saving FR5 PCB and UM-1 overtone crystal technology. This design offers considerable cost savings over other HFF XO's products. Also available in 14 pin dip fully hermetic package.



SUGGESTED PAD LAYOUT



RECOMMENDED REFLOW SOLDERING PROFILE



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

PIN	Function	Tri-State Function	
		Function pin 2	Output pin
1	NC	Open	Active
2	E/D	"0" level Vcc-1.620V Max	Active
3	GND	"1" level Vcc-1.025V Min	High Z
4	OUT	Disabled State:	
5	COUT	Pin 4 will assume a fixed level of logic "0"	
6	Vdd	Pin 5 will assume a fixed level of logic "1"	

Crystek Part Number Guide

CCPD-920 X - 25 - 100.000

#1 #2 #3 #4 #5

#1 Crystek 9x14 SMD PECL OSC
#2 Model 920
#3 Temp. Range: Blank = 0/70°C, X=-40/85°C
#4 Stability: (see Table 1)
#5 Frequency in MHz: 3 or 6 decimal places

Stability Indicator

20 = 0/70°C (±20ppm)
25 = 0/70°C (±25ppm)
50 = 0/70°C (±50ppm)
25 = -40/85°C (±25ppm)
50 = -40/85°C (±50ppm)

Example:
CCPD-920X-25-100.000 = 3.3V, 45/55, -40/85°C, 25ppm, 100.000 MHz

Table 1

Specifications subject to change without notice.

TD-051101 Rev. C