



Differential LVPECL **Clock Oscillator**

CCPD-920 Model 9×14 mm SMD, **3.3V, LVPECL**

Frequency Range: 50 MHz to 150 MHz

Frequency Stability: ±20, ±25, ±50ppm (0°C to 70°C)

±25, ±50ppm (-40°C to 85°C)

0°C to 70°C **Temperature Range:** (Option X) -40°C to 85°C

Storage: -45°C to 90°C Input Voltage: $3.3V \pm 0.3V$ Input Current: 88mA Max Output:

Differential LVPECL

Symmetry: 45/55% Max @ zero crossing point

Rise/Fall Time: 1ns Max (20% to 80%) Linearity: ± 10% Max

Terminated to Vdd-2V into 50 ohms Logic:

"0" = Vcc-1.85V Min, Vcc-1.62V Max Logic "0" Logic "1" "1" = Vcc-1.02V Min, Vcc-0.81V Max

Disable Time 200ns Max

Start-up Time 1ms Typical, 2ms Max

Phase Jitter: 12kHz to 80MHz 0.5psec Typical, 1psec RMS Max

Phase Noise: 10Hz -65 dBc/Hz Typical 100Hz -98 dBc/Hz Typical

-125 dBc/Hz Typical 1kHz 10kHz -140 dBc/Hz Typical 100kHz - 100MHz -145 dBc/Hz Typical

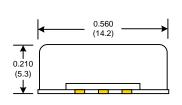
Aging: <3ppm 1st year, <1ppm every year thereafter

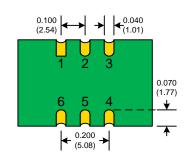


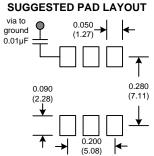


Designed today's to meet requirements for 3.3V Differential applications. LVPECL CCPD-920 is produced using our cost saving FR5 PCB and UM-1 crystal technology. overtone This design offers considerable cost savings over other HFF XO's products. Also available in pin dip fully hermetic package.

0.560 (14.2)CRYSTEK P/N 0.360 (9.14)Frequency **Date Code**







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

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

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

Tri-State Function		
Function pin 2	Output pin	
Open "0" level Vcc-1.620V Max "1" level Vcc-1.025V Min	Active Active High Z	
D'a al-la d'Otata		

Disabled State:

Pin 4 will assume a fixed level of logic "0" Pin 5 will assume a fixed level of logic "1"

Crystek Part Number Guide

CCPD-920 X - 25 - 100.000 #2 #3

#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)

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. G

