



CRYSTEK
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Differential LVPECL Clock Oscillator

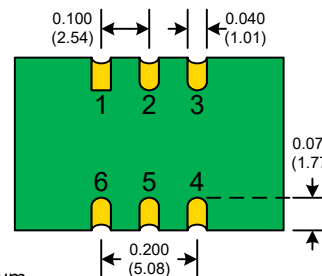
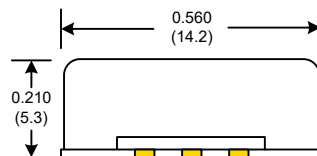
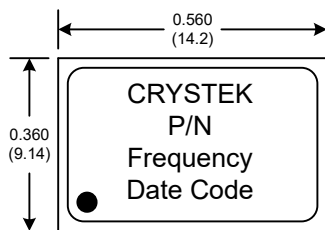
CCPD-912 Model

9×14 mm SMD, 3.3V, LVPECL

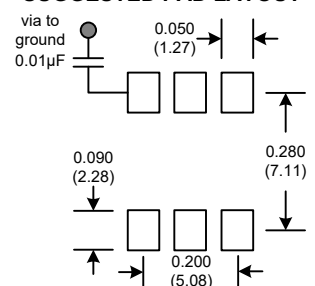
Frequency Range:	77.760 MHz to 161.1328 MHz
Frequency Stability:	±20ppm to ±100ppm
Temperature Range:	0°C to 70°C
	(Option M) -20°C to 70°C
	(Option X) -40°C to 85°C
Storage:	-45°C to 90°C
Input Voltage:	3.3V ± 0.3V
Input Current:	55mA Typical, 88mA Max
Output:	Differential LVPECL
Symmetry:	45/55% Max @ zero crossing point
Rise/Fall Time:	1ns Max (20% to 80%)
Logic:	Terminated to Vdd-2V into 50 ohms
	Temp. 0°C to 85°C "0" = 1.490 Min, 1.680 Max
	Temp. -40°C to 0°C "1" = 2.275 Min, 2.420 Max
	"0" = 1.470 Min, 1.745 Max
	"1" = 2.215 Min, 2.420 Max
	Disable Time 200ns Max
	Start-up Time 1mSec Typical, 2mSec Max
Jitter:	12kHz to 20MHz 0.45 pSec Typical @ 80 MHz, 1ps RMS Max
	0.25 pSec Typical @ 160 MHz, 1ps RMS Max
Phase Noise:	10Hz -65 dBc Typical
	100Hz -98 dBc Typical
	1kHz -125 dBc Typical
	10kHz -140 dBc Typical
	100kHz~100MHz -145 dBc Typical
Aging:	<3ppm 1 st year, <1ppm every year thereafter



Designed to meet today's requirements for 3.3V Differential LVPECL applications. The CCPD-912 is a very low noise, low jitter clock oscillator for demanding telecom and other applications.

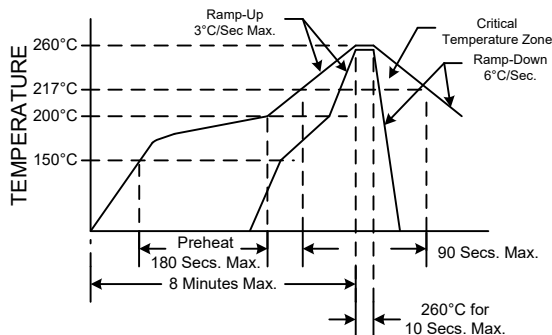


SUGGESTED PAD LAYOUT



PAD FINISH: Immersion Gold (ENIG); 5 micro inches maximum

RECOMMENDED REFLOW SOLDERING PROFILE



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

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

Tri-State Function	
Function pin 1	Output pin
Open	Active
"1" level 0.7V Min	Active
"0" level 0.3V Max	High Z

Crystek Part Number Guide

CCPD-912 X - 25 - 155.520

#1 #2 #3 #4 #5

#1 Crystek SMD PECL Osc.
#2 Model 912 = 9×14mm smd 6pad 3.3V
#3 Temp. Range: Blank = 0/70°C, M= -20/70°C, X= -40/85°C
#4 Stability: (see Table 1)
#5 Frequency in MHz: 3 or 6 decimal places

Stability Indicator

Blank (std)	± 100ppm
50	± 50ppm
25	± 25ppm
20 **	± 20ppm
** only available 0/70°C	

Example:
CCPD-912X-25-155.520 = 3.3V, 45/55, -40/85°C, 25ppm, 155.520 MHz

Table 1

Specifications subject to change without notice.

Rev: J

Date: 19-Sep-2017

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