

CCPD-912 Model

9X14 mm SMD, 3.3V, LVPECL

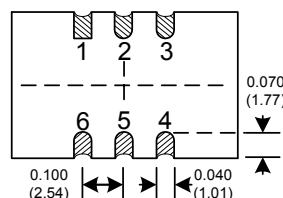
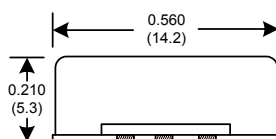
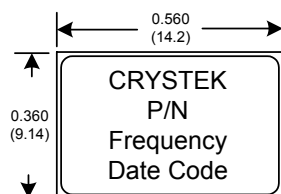
Lead Free
RoHS
Compliant

Differential LVPECL Clock Oscillator

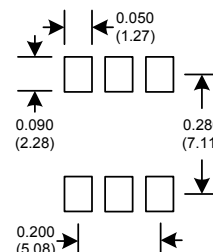


Designed to meet today's requirements for 3.3V Differential LVPECL applications. The CCPD-912 is a very low noise, low jitter clock oscillator for demanding telecom and other applications.

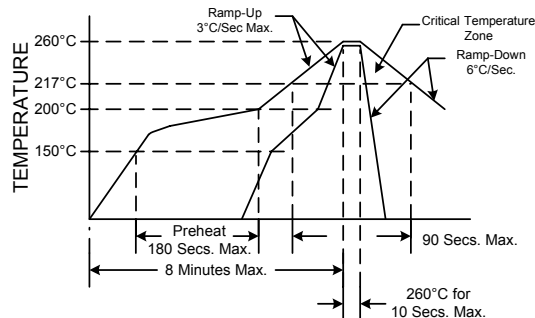
Frequency Range:	77.760MHz to 161.1328MHz
Frequency Stability:	±20ppm to ±100ppm
Temperature Range:	0°C to 70°C
	(Option M)
	(Option X)
Storage:	-20°C to 70°C
Input Voltage:	-40°C to 85°C
Input Current:	-55°C to 120°C
Output:	3.3V ± 0.3V
	55mA Typ, 88mA Max
	Differential LVPECL
Symmetry:	45/55% Max @ 50% Vdd
Rise/Fall Time:	1ns Max @ 20% to 80% Vdd
Logic:	Terminated to Vdd-2V into 50 ohms
	Temp. 0°C to 85°C
	"0" = 1.490 Min, 1.680 Max
	"1" = 2.275 Min, 2.420 Max
	Temp. -40°C to 0°C
	"0" = 1.470 Min, 1.745 Max
	"1" = 2.215 Min, 2.420 Max
	200ns Max
	1mSec Typ., 2mSec Max
Jitter:	12KHz to 20MHz
	0.45 psec Typ. @ 80 MHz, 1ps RMS Max
	0.25 psec Typ. @ 160 MHz, 1ps RMS Max
Phase Noise:	10Hz
	100Hz
	1KHz
	10KHz
	100KHz~100MHz
	-65dBc Typical
	-98dBc Typical
	-125dBc Typical
	-140dBc Typical
	-145dBc Typical
Aging:	<3ppm 1st/yr, <1ppm every year thereafter



SUGGESTED PAD LAYOUT



RECOMMENDED REFLOW SOLDERING PROFILE



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

Pad	Connection
1	E/D
2	N/C
3	GND
4	OUT
5	COUT
6	Vdd

Table 2

Crystek Part Number Guide

CCPD-912 X - 25 - 155.520

#1	#2	#3	#4	#5
#1 Crystek SMD PECL Osc.	#2 Model 912 = 9x14mm 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	

Table 1

Example:

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

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

Table 3

Specifications subject to change without notice.

TD-030403 Rev. D



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