

CCPD-034 Model 5X7 mm SMD, 3.3V, LVPECL

Lead Free
RoHS
Compliant

Differential LVPECL Clock Oscillator

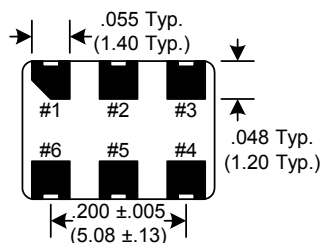
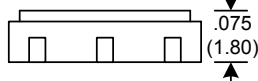
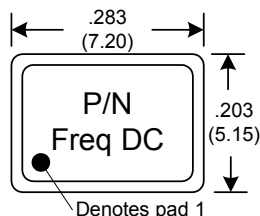


Frequency Range:	166.6286MHz to 330MHz
Standard Frequencies	See Table 3
Frequency Stability:	±50ppm & ±100ppm
Temperature Range:	0°C to 70°C
(Option M)	-20°C to 70°C
(Option X)	-40°C to 85°C
Storage:	-55°C to 120°C
Input Voltage:	3.3V ± 0.3V
Input Current:	55mA Typ, 88mA Max
Output:	Differential LVPECL
Symmetry:	45/55% Max @ 50% of Waveform
Rise/Fall Time:	1ns Max @ 20% to 80% of Waveform
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
Disable Time	200ns Max
Start-up Time	1ms Typ., 2ms 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
Aging:	<3ppm 1st/yr, 2ppm every year thereafter

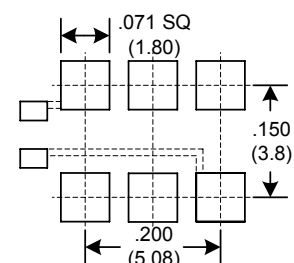
Designed using high frequency fundamental crystal design to meet today's requirements for 3.3V High Frequency Differential LVPECL applications. The CCPD-034 is a very low noise, low jitter clock oscillator for demanding telecom and other applications. Available on 16mm tape and reel in quantities of 1K.

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

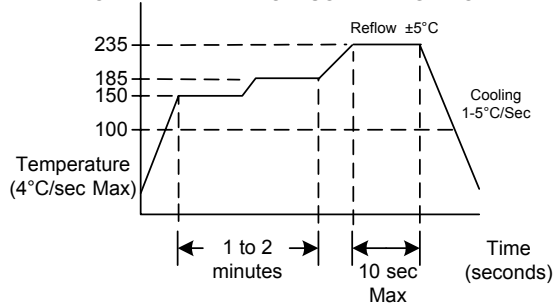


SUGGESTED PAD LAYOUT



Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



260°C Reflow Profile NOT recommended for this product

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

Table 2

Standard Frequencies	
166.6286	245.7600
167.3316	250.0000
212.5000	311.0400

Table 3

Crystek Part Number Guide

CCPD-034 X - 50 - 250.000

#1	#2	#3	#4	#5
#1 Crystek SMD PECL Osc.				
#2 Model 034 = 3.3V 5x7mm Mesa Fund. Osc.				
#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

Table 1

Example:

CCPD-034X-50-250.000 = 3.3V, 45/55, -40/85°C, 50ppm, 250.000 MHz

Standby Function		
Function pin 1	Output pin	Oscillator State
Open	Active	Normal Operation
"1" level .7Vcc Min	Active	Normal Operation
"0" level .3Vcc Max	High Z	Stopped

Specifications subject to change without notice.

TD-030405 Rev.G



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