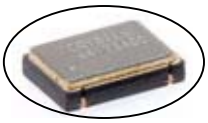
Clock Oscillator

CPLL-018 Model
5×7 mm SMD, 3.3V, HCMOS

RoHS Compliant

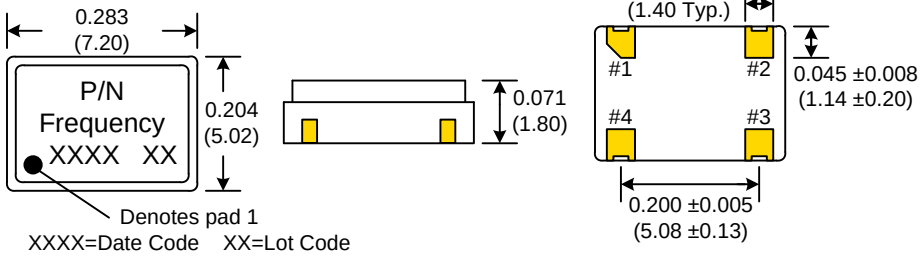


Designed to meet today's requirements for economical 3.3V applications. Available on 16mm tape and reel in quantities of 1K.

Frequency Range:	1.544 MHz to 200 MHz
Frequency Stability:	±25ppm, ±50ppm, ±100ppm
Temperature Range:	
Operating:	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:	45mA Max
Output:	HCMOS
Symmetry:	40/60% Max @ 50% Vdd
Rise/Fall Time:	10ns Max @ 20/% to 80% Vdd
Logic:	"0" = 80% Vdd Max
	"1" = 90% Vdd Min
Load:	15pF
Jitter:	150pS pk-pk Max
Aging:	<3ppm 1st/yr, <1ppm every year thereafter

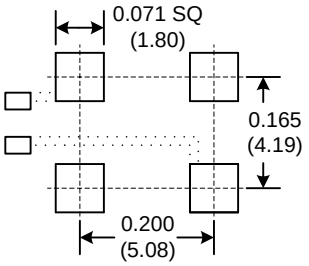
Dimensions inches (mm)

All dimensions are Max unless otherwise specified.



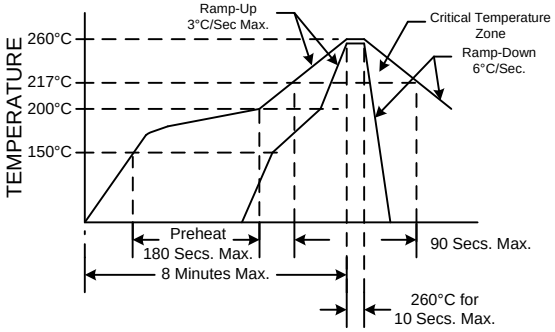
XXXX=Date Code XX=Lot Code

SUGGESTED PAD LAYOUT



0.01uF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



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

Crystek Part Number Guide

CPLL-018 X - 25 - 200.000
#1 #2 #3 #4 #5

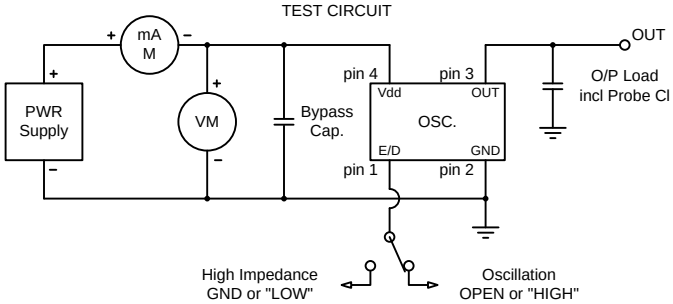
#1 Crystek Clock PLL Osc.
#2 Model
#3 Temp. Range: Blank= 0/70°C, M= -20/70°C, X= -40/85°C
#4 Stability: (see Table 1)
#5 Frequency in MHz: 3 or 6 decimal places

Stability Indicator	
Blank (std)	± 100ppm
50	± 50ppm
25	± 25ppm

Table 1

Example:
CPLL-018X-25-200.000 = 3.3V Tristate, -40/85°C, 25ppm, 200.000 MHz
CPLL-018-50-19.660800 = 3.3V Tristate, 0/70, 50ppm, 19.660800 MHz

TEST CIRCUIT



Tri-State Function	
Function pin 1	Output pin
Open "1" level 2.4V Min "0" level 0.4V Max	Active Active High Z

Specifications subject to change without notice.

TD-040405 Rev.G

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