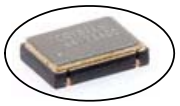
CSO-016T Model
5X7 mm SMD, **5V, HCMOS/TTL**

Lead Free RoHS Compliant

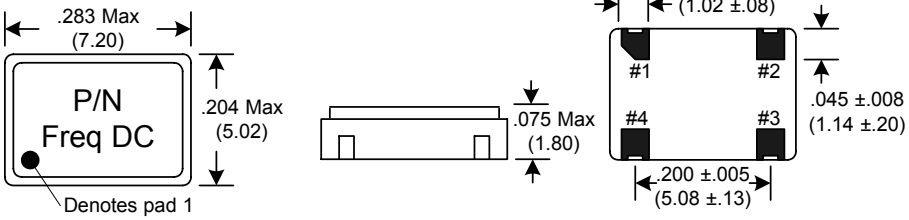
Clock Oscillator

Frequency Range:	1.544MHz to 106.25MHz
Frequency Stability:	±25ppm to ±100ppm
Temperature Range:	
Operating:	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:	5V ± 0.5V
Input Current:	45mA Max
Output:	HCMOS/TTL
Symmetry:	40/60% Max @ 50% Vdd
(Option Y)	45/55% Max @ 50% Vdd
Rise/Fall Time:	10ns Max @ 20/% to 80% Vdd
Logic:	"0" = 10% Vdd Max
	"1" = 90% Vdd Min
Load:	15pF/10 TTL Max
Aging:	<3ppm 1st/yr, 1ppm every year thereafter

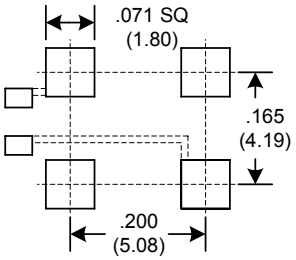


Designed to meet today's requirements for economical 5V applications. Available on 16mm tape and reel in quantities of 1K.

Dimensions inches (mm)
All dimensions are Max unless otherwise specified.

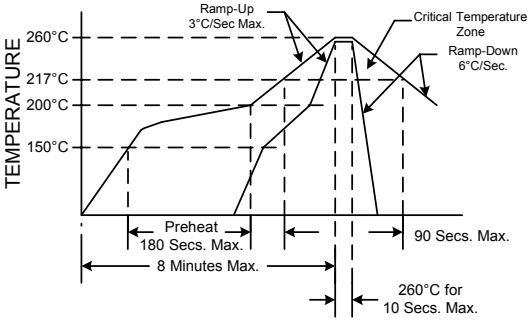


SUGGESTED PAD LAYOUT

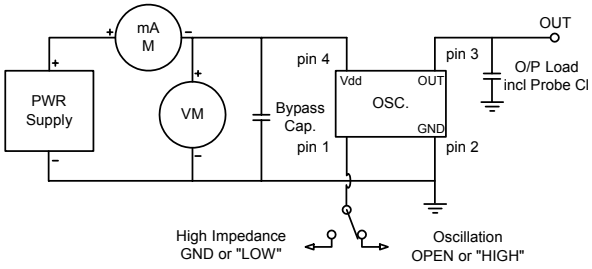


0.01uF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



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



Crystek Part Number Guide

CSO-016T X Y- 25 - 49.152
#1 #2 #3 #4 #5 #6

#1 Crystek Clock Osc.
#2 Model
#3 Temp. Range: Blank= 0/70°C, M= -20/70°C, X= -40/85°C
#4 Symmetry: Blank=(40/60), Y=(45/55)
#5 Stability: (see Table 1)
#6 Frequency in MHz: 3 or 6 decimal places

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

Table 1

Example:
CSO-016TXY-25-25.000 = 5V Tristate, -40/85°C, 45/55, 25ppm, 25.000 MHz
CSO-016T-50-19.660800 = 5V Tristate, 0/70, 40/60, 50ppm, 19.660800 MHz

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

Specifications subject to change without notice. TD-021002 Rev. E

Crystek Crystals Corporation 12730 Commonwealth Drive • Fort Myers, FL 33913
239.561.3311 • 800.237.3061 • FAX: 239.561.1025 • www.crystek.com