



CRYSTEK
CRYSTALS
A DIVISION OF CRYSTEK CORPORATION

Clock Oscillator

CSO-016T Model

5x7 mm SMD, 5.0V, HCMOS/TTL

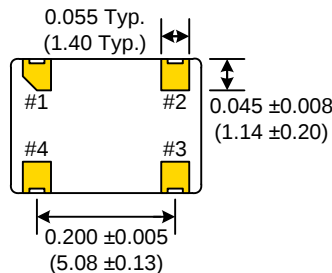
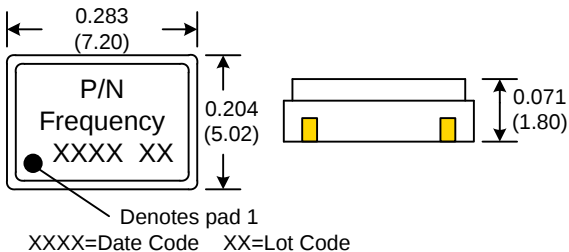
Frequency Range:	1.544 MHz to 100.00 MHz
Frequency Stability:	±25ppm to ±100ppm
Temperature Range:	
Operating:	0°C to 70°C
(Option M)	-20°C to 70°C
(Option X)	-40°C to 85°C
Storage:	-45°C to 120°C
Input Voltage:	5V ±0.5V
Input Current:	45mA Max
Output:	HCMOS/TTL
Symmetry:	40/60% Max @ 50% Vdd
(Option 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 1 st /yr, 1ppm every year thereafter



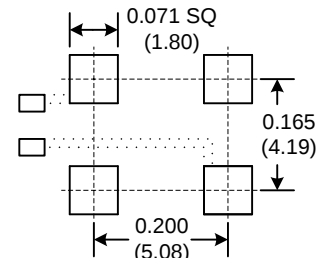
Designed to meet today's requirements for economical 5V applications. Available on 16mm tape and reel in quantities of 1K.

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

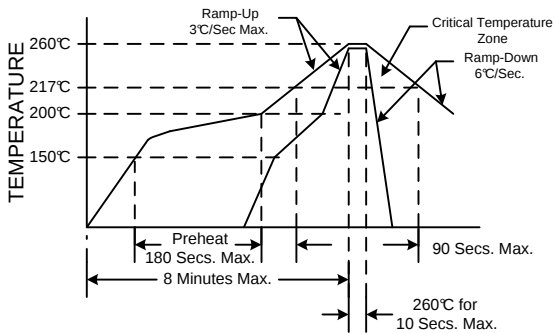


SUGGESTED PAD LAYOUT



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

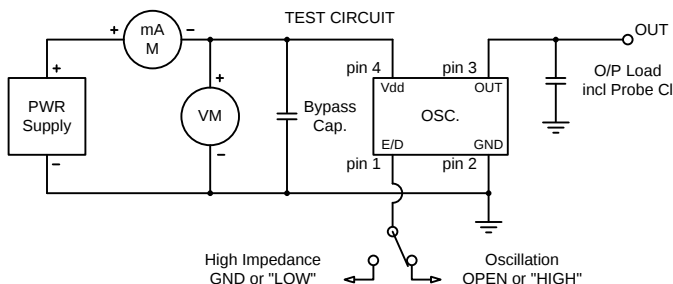
Stability Indicator

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

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



Tristate 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. K



CRYSTEK
CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913
PHONE: 239-561-3311 • 800-237-3061
FAX: 239-561-1025 • WWW.CRYSTEK.COM