

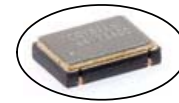
CSO-018T Model

5X7 mm SMD, 3.3V, HCMOS

Lead Free
RoHS
Compliant

Clock Oscillator

www.DataSheet4U.com



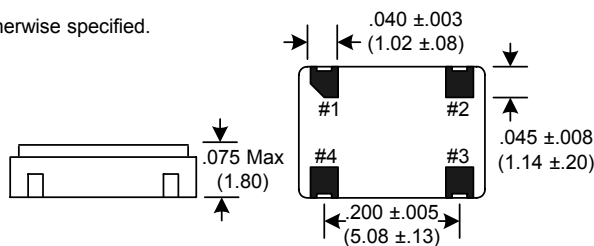
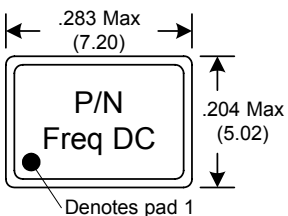
Designed to meet today's requirements for economical 3.3V applications. Available on 16mm tape and reel in quantities of 1K.

Frequency Range: 1.544MHz to 125MHz
Frequency Stability: ± 25 ppm to ± 100 ppm
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: 3.3V $\pm$ 0.3V
Input Current: 45mA Max
Output: HCMOS
 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 Max

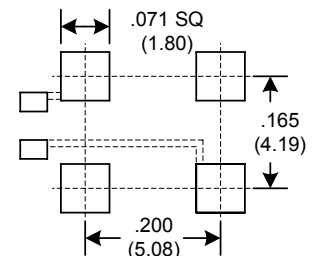
Aging: <3ppm 1st/yr, 1ppm every year thereafter

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

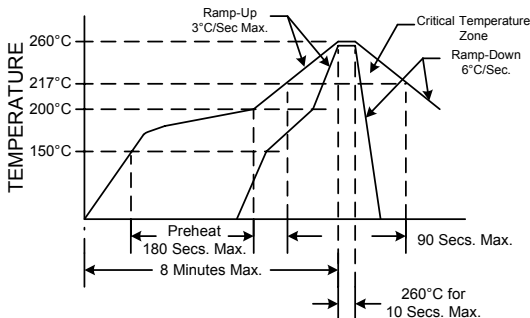


SUGGESTED PAD LAYOUT

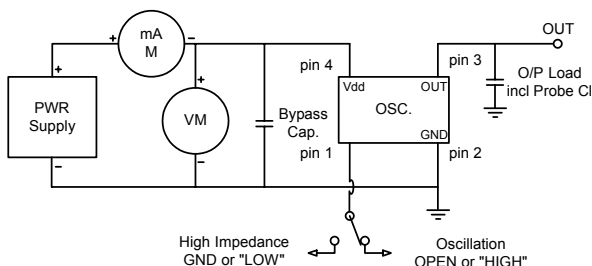


0.01uF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



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



Crystek Part Number Guide

CSO-018T X Y- 25 - 49.152

#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) $\pm$ 100ppm
 25 $\pm$ 25ppm
 50 $\pm$ 50ppm

Table 1

Example:
 CSO-018TXY-25-25.000 = 3.3V Tristate, -40/85°C, 45/55, 25ppm, 25.000 MHz
 CSO-018T-50-19.660800 = 3.3V 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-021001 Rev. C



Crystek Crystals Corporation

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