



C32xx Model

5x7 mm SMD, 5V, HCMOS/TTL

| | |
|--------------------------------------|--|
| Frequency Range: | 1.544 MHz to 100.000 MHz |
| Frequency Stability Options: | ±20*, ±25, ±50, ±100 (ppm) |
| Temperature Range: (standard) | 0°C to +70°C |
| (Option "M") | -20°C to +70°C |
| (Option "E"*) | -40°C to +85°C |
| Storage: | -45°C to 90°C |
| Input Voltage: | 5.0V ±0.5V |
| Input Current: | 60mA Max |
| Output: | HCMOS/TTL |
| Symmetry: | |
| (Standard "2") | 40/60% Max @ 50% Vdd |
| (Option "9") | 45/55% Max @ 50% Vdd |
| Rise/Fall Time: | 6ns Max @ 20% to 80% Vdd |
| Logic: | "0" = 10% Vdd Max |
| | "1" = 90% Vdd Min |
| Disable Time: | 200nSec Max |
| Start-up Time: | 1mSec Typ., 2mSec Max |
| Load: | 50pF/10TTL Max |
| Jitter RMS: 12kHz~20MHz | 0.5ps Typ, 1ps Max |
| Sub-harmonics: | None |
| Aging: | <3ppm 1 st /yr, <1ppm every year thereafter |

*available in select frequencies -40/85

Model C32xx is a 1.544 MHz to 100.000 MHz HCMOS Clock Oscillator operating at 5.0Volts. The oscillator utilizes Fundamental or High Q Third Overtone crystal design providing very low Jitter and Phase Noise. No Sub-Harmonics are present in the Output Signal.

Applications:

Digital Video
SONET/SDH/DWDM
Storage Area Networks
Broadband Access
Ethernet, Gigabit Ethernet

Mechanical:

Shock: MIL-STD-883, Method 2002, Condition B
Vibration: MIL-STD-883, Method 2007, Condition A
Solderability: MIL-STD-883, Method 2003
Solvent Resistance: MIL-STD-202, Method 215
Resistance to Soldering Heat: MIL-STD-202, Method 210, Condition I or J

Environmental:

Thermal Shock: MIL-STD-883, Method 1011, Condition A
Moisture Resistance: MIL-STD-883, Method 1004

Rev: K

Date: 10-Jan-12

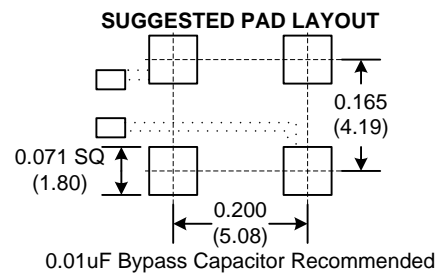
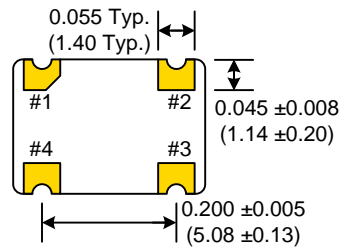
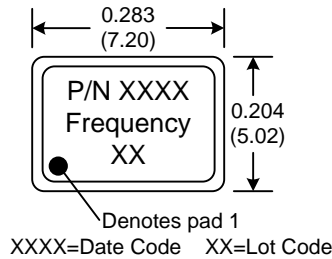
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Specifications subject to change without notice.



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

| Tri-State Function | |
|--|----------------------------|
| Function pin 1 | Output pin |
| Open "1" level 0.7xVcc Min "0" level 0.3xVcc Max | Active Active High Z |

| PIN | Function |
|-----|----------|
| 1 | E/D |
| 2 | GND |
| 3 | OUT |
| 4 | Vcc |

Crystek Part Number Guide

C X 3 X 9 X - 44.736
#1 #2 #3 #4

#1 Temp. Range: Blank = 0/70°C, M = -20/70°C, E = -40/85°C
#2 Symmetry: 2 = 40/60%, 9 = 45/55%
#3 Stability: (see Table 1)
#4 Frequency in MHz: 3 or 6 decimal places

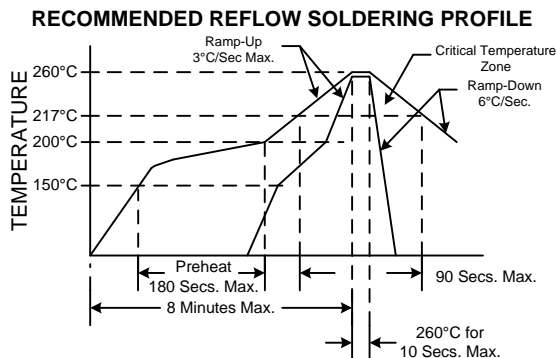
Example:
C3292-44.736MHz = 5.0V, 0/70°C, 40/60%, ±50ppm, 44.736MHz
CM3991-44.736MHz = 5.0V, -20/70°C, 45/55%, ±25ppm, 44.736MHz
CE3290-44.736MHz = 5.0V, -40/85°C, 40/60%, ±100ppm, 44.736MHz

Stability Indicator

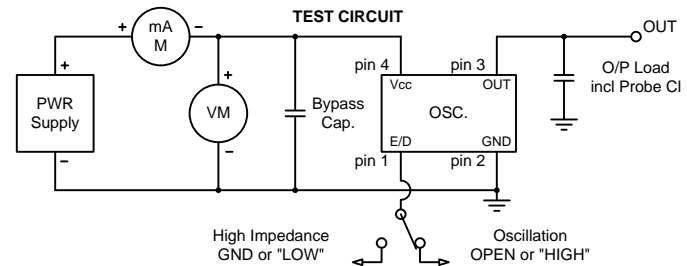
| | |
|----|---------|
| 0 | ±100ppm |
| 2 | ± 50ppm |
| 1 | ± 25ppm |
| 8* | ± 20ppm |

*available in select frequencies -40/85

Table 1



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



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