



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**C32xx Model**  
5x7 mm SMD, 5V, HCMOS/TTL

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

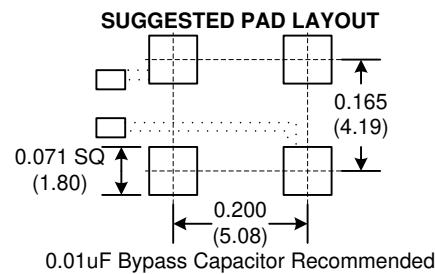
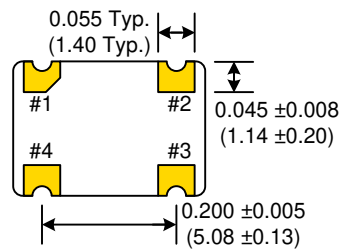
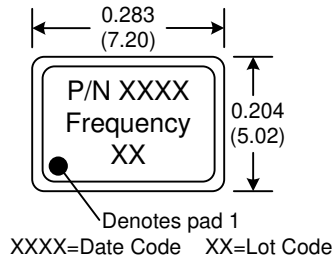
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Specifications subject to change without notice.



## C32xx Model

5x7 mm SMD, 5V, HCMOS/TTL



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

Tri-State Function	
Function pin 1	Output pin
Open	Active
"1" level 0.7×Vcc Min	Active
"0" level 0.3×Vcc Max	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

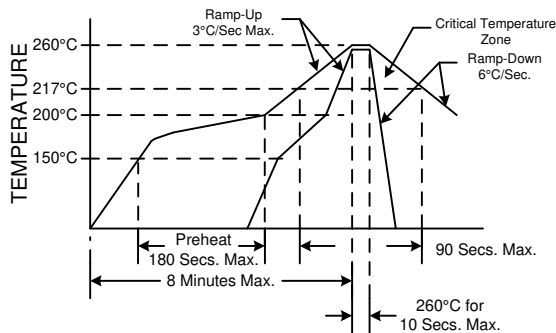
### Stability Indicator

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

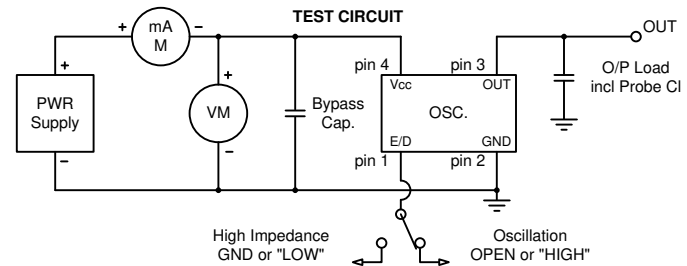
\*available in select frequencies -40/85

Table 1

### RECOMMENDED REFLOW SOLDERING PROFILE



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



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