



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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Clock Oscillator



C33xx Model 5x7 mm SMD, 3.3V, HCMOS

Frequency Range:	1.544 to 156.250 MHz
Frequency Stability Options(ppm):	±20, ±25, ±50, ±100
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:	3.3V ±0.3V
Input Current:	
(1.544~34.00MHz)	18mA Max
(35.00~50.00MHz)	25mA Max
(51.00~69.00MHz)	30mA Max
(70.00~156.25MHz)	45mA Max
Standby Current:	3uA Typ., 10uA Max
Output:	HCMOS
Symmetry:	45/55% Max @ 50%Vdd
Rise/Fall Time:	
(1.54~10.00MHz)	5nsec Max @ 20% to 80% Vdd
(10.10~30.00MHz)	4nsec Max @ 20% to 80% Vdd
(30.10~50.00MHz)	3nsec Max @ 20% to 80% Vdd
(50.10~80.00MHz)	2.5nsec Max @ 20% to 80% Vdd
(80.10~156.25MHz)	2nsec 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:	30pF Max, >125MHz 15pF Max
Jitter RMS: 12kHz~80MHz	0.5psec Typ., 1psec Max
Sub-harmonics:	None
Aging:	<3ppm 1 st /yr, <1ppm every year thereafter

*available in select frequencies -40/85

Model C33xx is a 1.544 MHz to 156.250 MHz HCMOS Clock Oscillator operating at 3.3Volts. 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

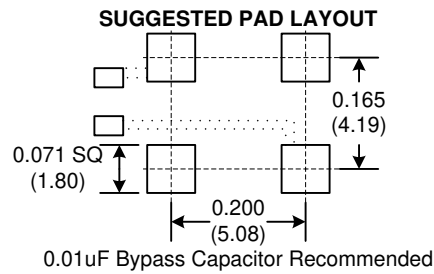
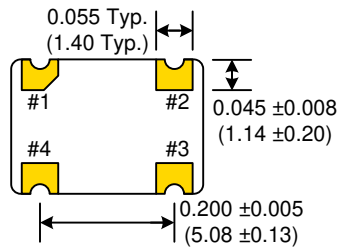
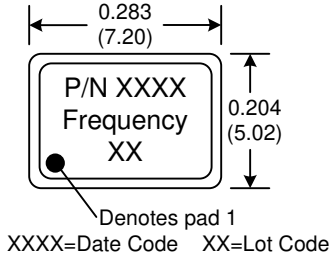
Date: 10-Jan-12

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Specifications subject to change without notice.



C33xx Model 5x7 mm SMD, 3.3V, HCMOS



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

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

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

Crystek Part Number Guide

C X 3 3 9 X - 44.736

#1 #2 #3

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

Example:

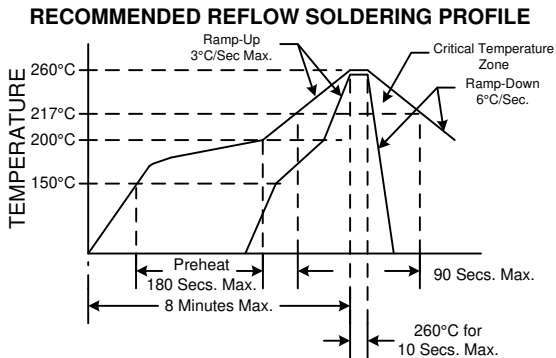
C3392-44.736MHz = 3.3V, 0/70°C, ±50ppm, 44.736MHz
CM3391-44.736MHz = 3.3V, -20/70°C, ±25ppm, 44.736MHz
CE3390-44.736MHz = 3.3V, -40/85°C, ±100ppm, 44.736MHz

Stability Indicator

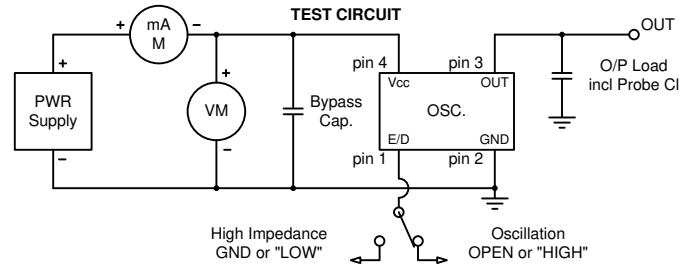
0	± 100ppm
2	± 50ppm
1	± 25ppm
8*	± 20ppm

*available in select frequencies -40/85

Table 1



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



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