

**C33xx Model**  
5×7 mm SMD, 3.3V, HCMOS

<b>Frequency Range:</b>	1.544 to 156.250 MHz
<b>Frequency Stability Options(ppm):</b>	±20, ±25, ±50, ±100
<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 Temperature:</b>	-45°C to 90°C
<b>Input Voltage:</b>	3.3V ±0.3V
<b>Input Current:</b>	
(1.544~34.00 MHz)	18mA Max
(35.00~50.00 MHz)	25mA Max
(51.00~69.00 MHz)	30mA Max
(70.00~156.25 MHz)	50mA Max
<b>Standby Current:</b>	3uA Typical, 10uA Max
<b>Output:</b>	HCMOS
<b>Symmetry:</b>	45/55% Max @ 50%Vdd
<b>Rise/Fall Time:</b>	
(1.54~10.00 MHz)	5ns Max @ 20% to 80% Vdd
(10.10~30.00 MHz)	4ns Max @ 20% to 80% Vdd
(30.10~50.00 MHz)	3ns Max @ 20% to 80% Vdd
(50.10~80.00 MHz)	2.5ns Max @ 20% to 80% Vdd
(80.10~156.25 MHz)	2ns Max @ 20% to 80% Vdd
<b>Logic:</b>	"0"= 10% Vdd Max "1"= 90% Vdd Min
<b>Disable Time:</b>	200ns Max
<b>Start-up Time:</b>	10ms Max
<b>Load:</b>	15pF Max
<b>Jitter RMS: 12 kHz~80 MHz</b>	0.5ps Typical, 1ps Max
<b>Sub-harmonics:</b>	None
<b>Aging:</b>	<3ppm 1 <sup>st</sup> year, <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:**

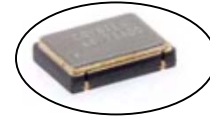
Shock: MIL-STD-883, Method 2002, Condition B  
Vibration: MIL-STD-883, Method 2007, Condition A  
Solderability: MIL-STD-883, Method 2003  
Solvent Resistance: MIL-STD-202, Method 215  
Resistance to Soldering Heat: MIL-STD-202, Method 210, Condition I or J

**Environmental:**

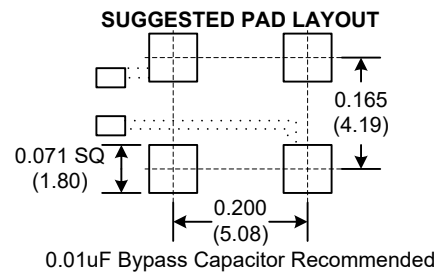
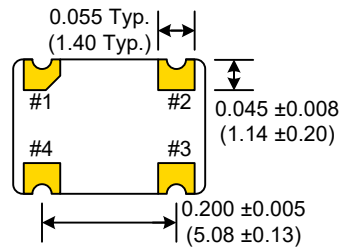
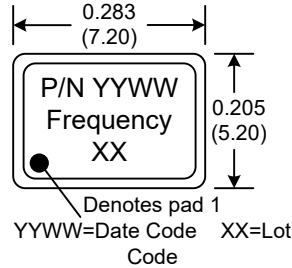
Thermal Shock: MIL-STD-883, Method 1011, Condition A  
Moisture Resistance: MIL-STD-883, Method 1004

Rev: R  
Date: 04-Aug-2020  
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## C33xx Model 5×7 mm SMD, 3.3V, HCMOS



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

Enable/Disable	
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 - 44.736MHz

#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

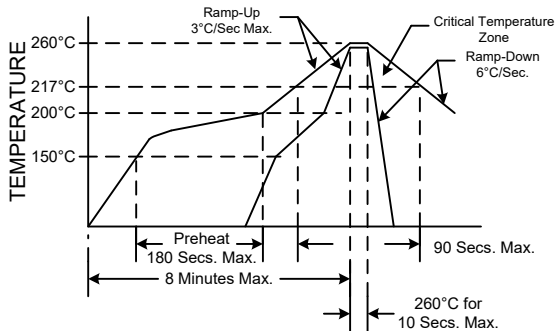
### Stability Indicator

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

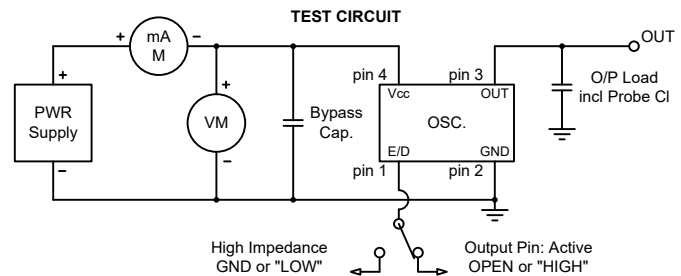
\*available in select frequencies -40/85

Table 1

### RECOMMENDED REFLOW SOLDERING PROFILE



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



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[SM4420TEV-40.0M-T1K](#) [F335-24](#) [F335-40](#) [F535L-10](#) [F535L-12](#) [F535L-24](#) [F535L-27](#) [PE7744DW-100.0M](#) [ASF1-3.686MHZ-N-K-S](#) [ASV-](#)  
[4.000MHZ-LCS-T](#) [XLH735025.000JU4I8](#) [XLP725125.000JU6I8](#) [XO57CTECNA3M6864](#) [601251](#) [SiT8503AI-18-33E-0.200000X](#)  
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[18E-25.00000](#) [8008AI-72-XXE-24.545454E](#) [8004AC-13-33E-133.33000X](#) [AS-4.9152-16-SMD-TR](#) [ASFL1-48.000MHZ-LC-T](#)  
[632L3I004M00000](#) [SIT8920AM-31-33E-25.0000](#) [DSC1028DI2-019.2000](#) [9121AC-2C3-25E100.00000](#) [9102AI-233N33E100.00000X](#)  
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[8103AC-13-33E-12.00000X](#) [3921AI-2CF-33NZ125.000000](#) [5730-1SF](#) [XUN736000.032768I](#) [ASV-25.000MHZ-ECS-50-T](#) [EC3925ETTTS-](#)  
[100.000M TR](#) [SIT1602BC-83-33E-10.000000Y](#) [8003AI-12-33S-40.00000Y](#) [1602BI-13-33S-19.200000E](#)