

RoHS Compliant
Pb - Lead Free
AEC-Q200 Qualified

Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		12.000 to 52.000	MHz
Mode of Oscillation	Fundamental	12.000 to 52.000	
Frequency Tolerance at 25°C		±50	PPM Max
Frequency Stability over Temperature Range		±100	
Operating Temperature Range		-40 to +125	° C
Storage Temperature Range		-55 to +150	
Aging per Year		±3	PPM Max
Load Capacitance		7 to 32 and Series Resonance	pF
Shunt Capacitance		5.0	
Equivalent Series Resistance (ESR)		See ESR Table	Ohm
Drive Level		100	uW Max
Insulation Resistance		500 at 100 Vdc ± 15 Vdc	M Ohm

Frequency Range and ESR Values:

Frequency Range in MHz	ESR Ohm Max	Mode of Operation
12.000 to 29.900	100	Fundamental
30.000 to 52.000	50	Fundamental



11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC

All dimensions are millimeters.

CAD: TCR

Review: EG

Appr: JL

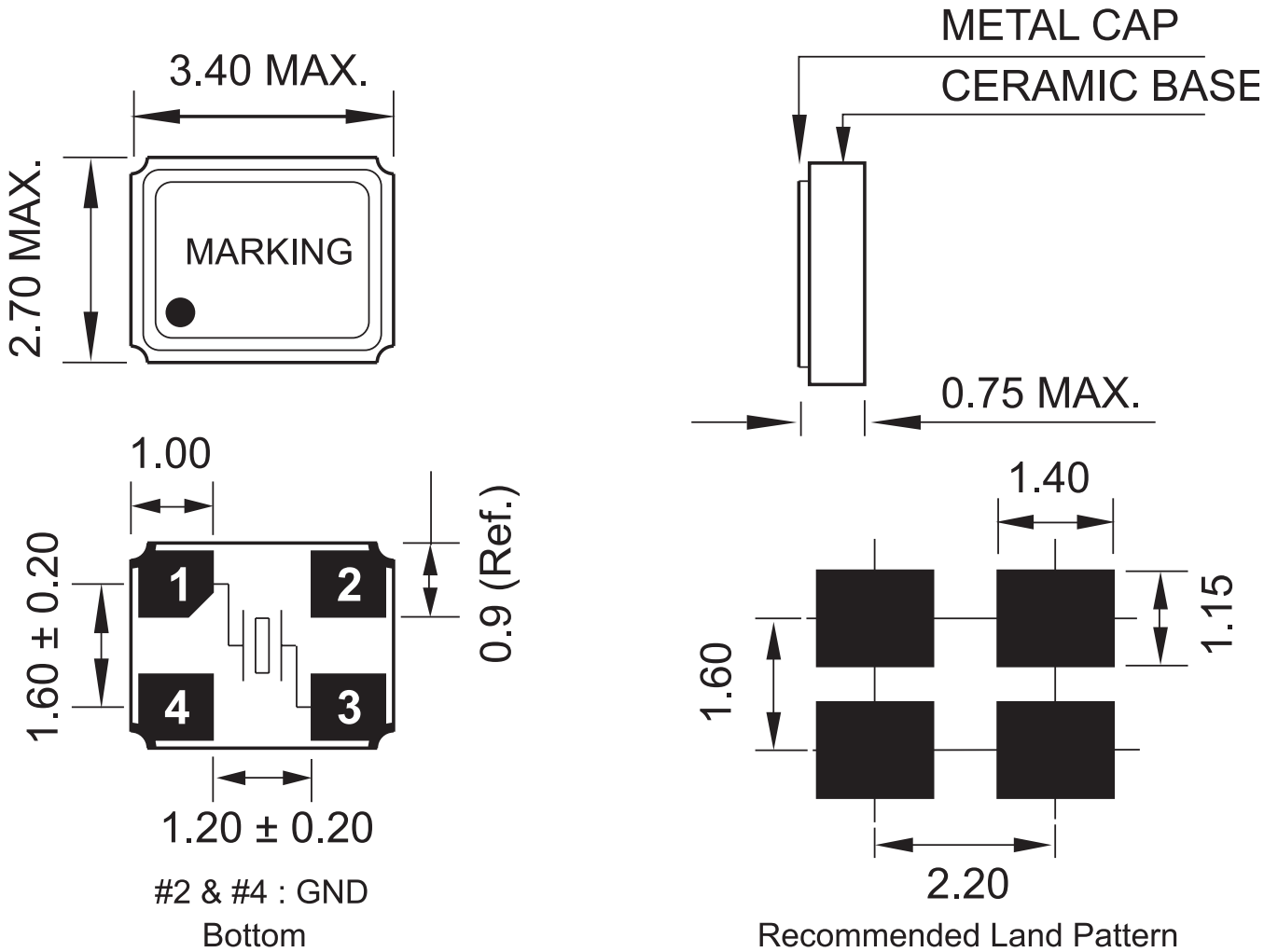
Page: 1/4 Date: April 15, 2008

Specification Title:

**Microprocessor Crystal Unit
Automotive Temperature Range
2.5 x 3.2 millimeter Surface Mount
General Product Specification**

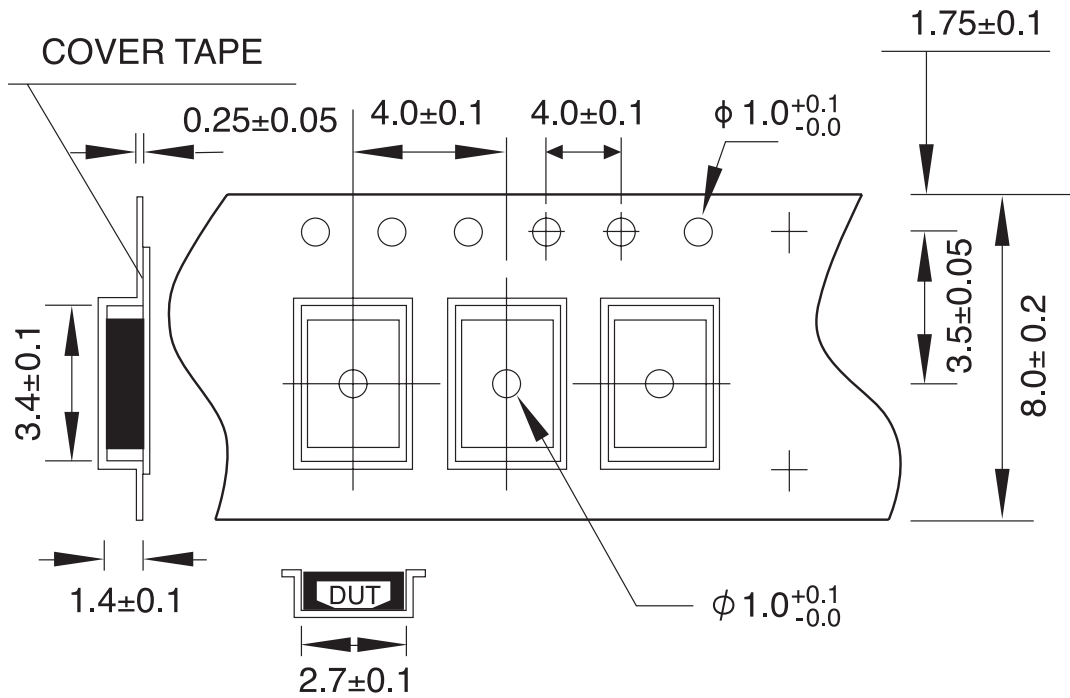
Part Number: **C3E X1 Series**

Mechanical Outline:



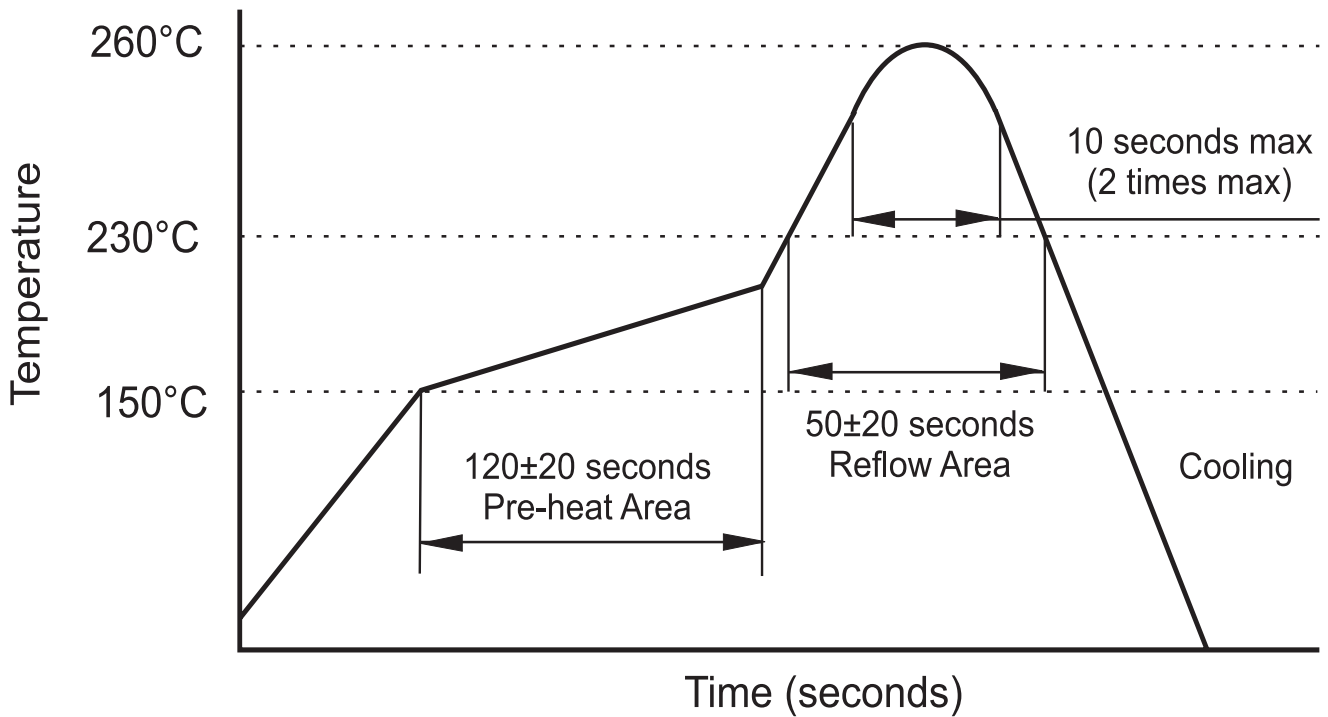
**Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.**

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



How to build a Part Number:

Series	C	Parameter
Package	3E	3.2 x 2.5 mm
	-	
Frequency	12.000 to 52.000	MHz
	-	
Load Capacitance	7	7 pF
	10	10 pF
	12	12 pF
	16	16 pF
	18	18 pF
	20	20 pF
	32	32 pF
	S	Series
	-	
Frequency Tolerance	50	±50 PPM
Frequency Stability	100	±100 PPM
	-	
Temperature Range	X	-40 to +125 °C
	-	
Packaging	R	Tape and Reel

Part Number Example:

C3E-32.768-18-50100-X1-R

C3E- 2.5 x 3.2 mm SMD Seam Seal Crystal Unit

32.768 MHz Nominal Frequency

18 pF Load Capacitance

50100: ±50 PPM Frequency Tolerance and ±100 PPM Frequency Stability

Fundamental Mode

X1: -40 to +125° C Temperature Range

R: Tape and Reel Packaging

Notes:

- 1- Product is shipped in Tape and Reel configuration. Each reel contains 3000 pieces.**
- 2- Quantities less than 3000 are shipped bulk in ESD pouches.**
- 3- Specification subject to change without notice.**

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [aker manufacturer](#):

Other Similar products are found below :

[SMA-027000-3BL4TD](#) [CXA-012000-3F4D40](#) [CXA-016384-3D4X20](#) [CXA-026000-3F7F20](#) [C-3.579545-18-3050-X](#) [49SN-027120-FX20X10](#)
[C5S-16.000-12-3030-X](#) [SMF-020000-5BC6T0](#) [SMA-040000-5CL4T5](#) [CXAN-025000-3F12D40](#) [C-8.000-18-3050-X](#) [CXAN-040000-3F15D41](#) [SMBN-033333-7BL4T00](#) [CXA-026000-3FCF20](#) [CA-18.432-18-3050-X](#) [CA-11.0592-18-3050-X](#) [C-4.194304-18-3050-X](#) [CXA-039000-7F1X40](#) [S33305-50.000-X](#) [C3E-14.31818-12-3030-X](#) [S53305-50.000-X](#) [S73305-10.000-X-15](#) [C6S-18.432-12-3030-X](#) [C7S-8.000-12-50100-X1](#) [C-24.576-18-3050-X](#) [C3E-14.7456-12-3030-X](#) [C7S-6.000-12-50100-X1](#) [CAA-4.194304-18-3050-X](#) [C3E-14.7456-12-50100-X1](#) [C6S-16.000-12-3030-X](#) [S73305T-24.000-X-15-R](#) [CA-8.000-18-3050-X](#) [C3E-16.000-12-50100-X1](#) [S73305-12.000-X-15](#) [49S-008000-FDRD10](#) [S73305-14.7456-X-15](#) [C3E-18.432-12-3030-X](#) [C3E-20.000-12-50100-X1](#) [CAA-3.579545-18-3050-X](#) [C7S-20.000-12-3030-X](#) [C6S-24.000-12-3030-X](#) [CA-25.000-18-3050-X](#) [CAA-16.000-18-3050-X](#) [49SN-011059-FX16X10](#) [C7S-24.000-12-50100-X1](#) [CA4-8.000-18-3050-X](#) [C3E-12.000-12-3030-X](#) [C5S-20.000-12-3030-X](#) [C3E-13.560-12-1010-X](#) [S7A33025-156.250-L-X-R](#)