	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free AEC-Q200 Qualified				

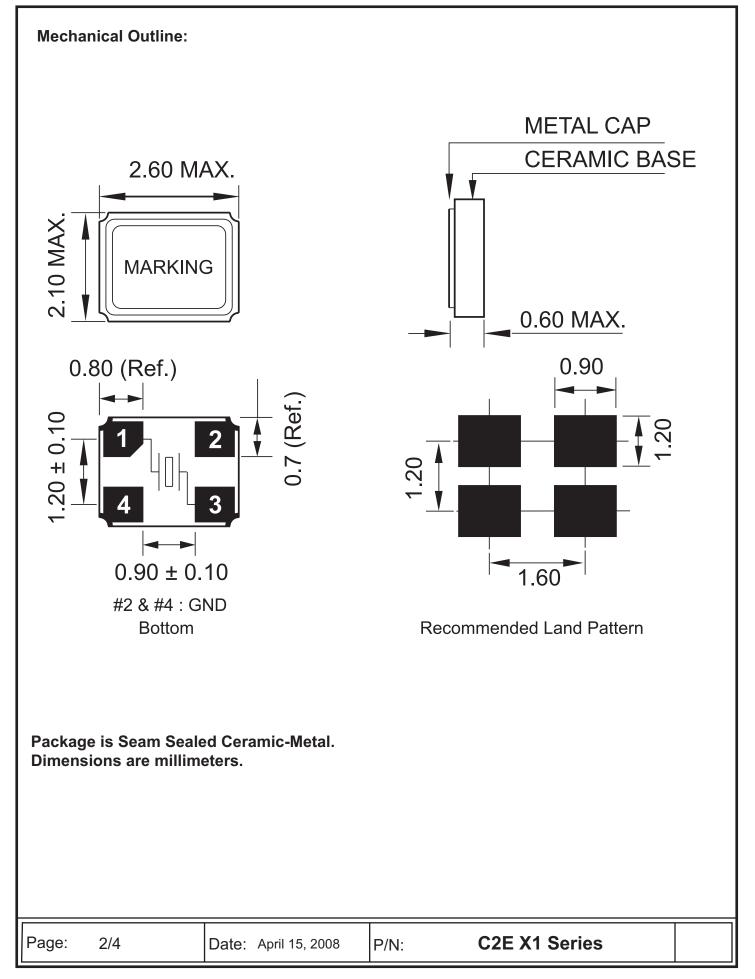
## **Electrical Specifications:**

Frequency Range		16.000 to 50.000	MHz	
Mode of Oscillation	Fundamental	16.000 to 50.000		
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		
Shunt Capacitance		5.0	pF	
Equivalent Series Resistance (ESR)		See ESR Table	Ohm	
Drive Level		100	uW Typ	
Insulation Resistance		500 at at 100 Vdc ± 15 Vdc	M Ohm	

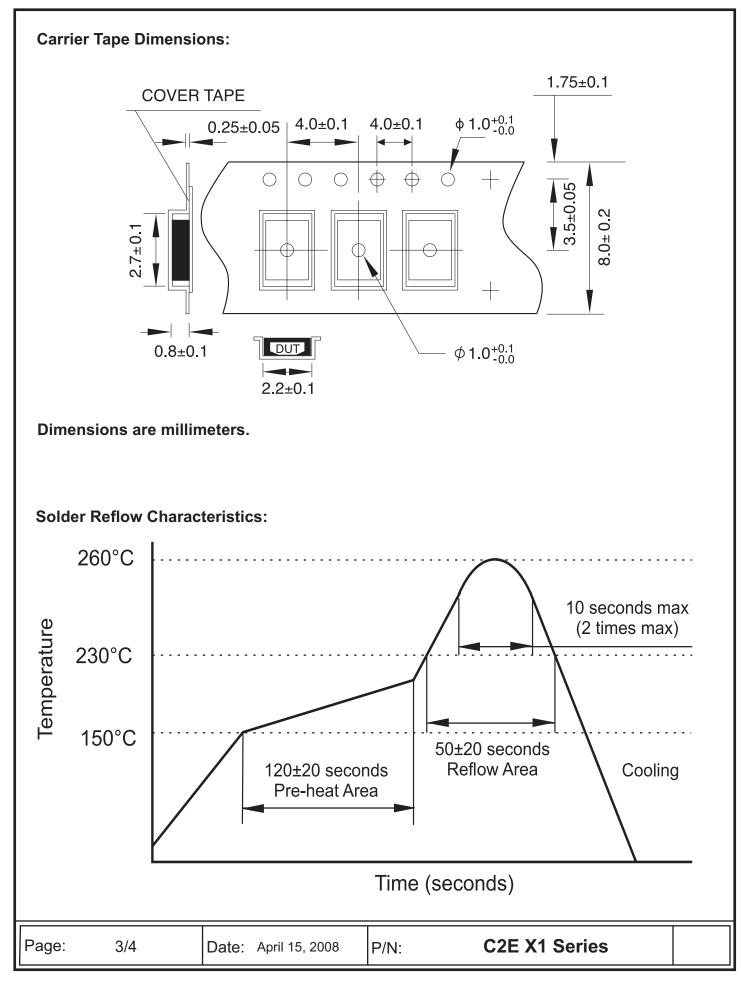
## Frequency Range and ESR Values:

Frequency Range in MHz	ESR Ohm Max	Mode of Operation
16.000 to 29.999	100	Fundamental
30.000 to 50.000	70	Fundamental

11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC	Specification Title: Microprocessor Crystal Unit Automotive Temperature Range		
All dimensions are millimeters. CAD: TCR Review: EG	2.0 x 2.5 millimeter Surface Mount General Product Specification		
Appr: JL   Page: 1/4 Date: April 15, 2008	Part Number: C2E X1 Series		



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Series	C	Parameter
Package	2E	2.0 x 2.5 mm
	-	
Frequency	16.000 to 50.000	MHz
	-	
	7	7 pF
	10	10 pF
	12	12 pF
Load Capacitance	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	- X1	-40 to +125 °C
Tomporataro Rango	-	+0 10 - 120 - 0
Packaging	R	Tape and Ree

C2E-50.000-18-50100-X1-R C2E- 2.0 x 2.5 mm SMD Seam Seal Crystal Unit 50.000 MHz Nominal Frequency 18 pF Load Capacitance 50100: ±50 PPM Frequency Tolerance and ±100 PPM Frequency Stability Fundamental Mode X1: -40 to +125° C Automotive 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.

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