	Ltr	Revisions		Appr
RoHS Compliant				
Pb - Lead Free				

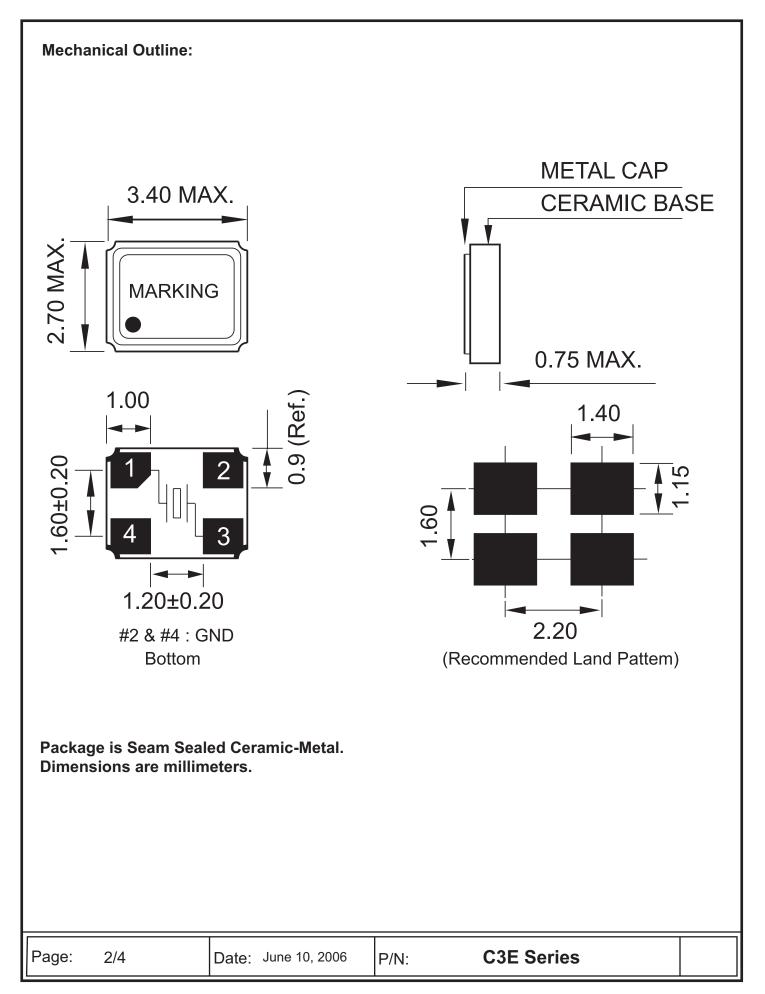
Electrical Specifications:

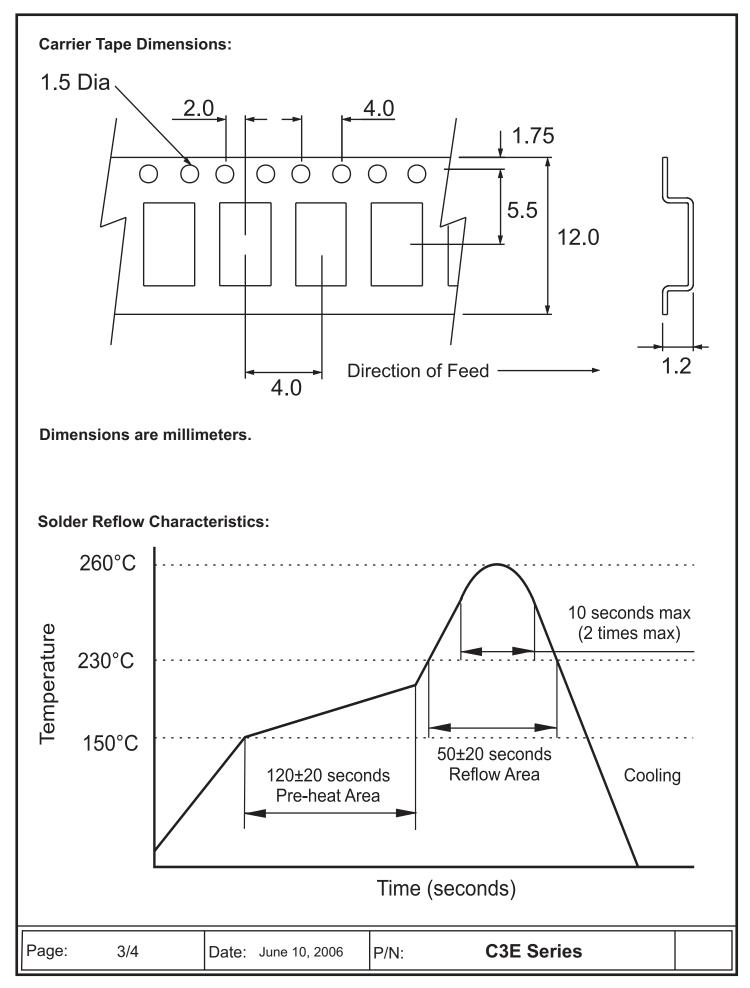
Frequency Range		12.000 to 52.000	MHz		
Mode of Oscillation	Fundamental	12.000 to 52.000	MHZ		
	Standard	±30			
		±25			
Frequency Tolerance at 25°C	Ontional	±20	PPM Max (Note 1)		
	Optional	±15			
		±10			
	Standard	±50			
		±30			
Frequency Stability over		±25	PPM Max		
Temperature Range	Optional	±20	(Note 1)		
		±15			
		±10			
	Standard	-10 to +70	°C		
Operating Temperature Range	Extended	-40 to +85			
Storage Temperature Range		-55 to +125			
Aging		±3	PPM Max/Year		
Load Capacitance		7 to 32 and Series Resonance	рF		
Shunt Capacitance		5.0			
Equivalent Series Resistance (ESR))	See ESR Table	Ohm		
Drive Level		100	uW Max		
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
12.000 to 29.900	100	Fundamental
30.000 to 52.000	50	Fundamental

All dimensions are millimeters. CAD: TCR Review: EG	Specification Title: Microprocessor Crystal Unit Low Profile 2.5 x 3.2 millimeter Surface Mount General Product Specification	
Appr: JL Page: 1/4 Date: June 10, 2006	Part Number: C3E Series	





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Series		C	Parameter	
Package		3E	3.2 x 2.5 mm	
Frequency		- 12.000 to 52.000	MHz	
		-		
		7	7 pF	
	[10	10 pF	
	ſ	12	12 pF	
	maaitanaa	16	16 pF	
Load Capacitance - - -		18	18 pF	
		20	20 pF	
		32	32 pF	
		S	Series	
		-		
	Standard	30	±30 PPM	
requency Tolerance		25	±25 PPM	
		20	±20 PPM	
(Note 1)		15	± 15 PPM	
	Ī	10	±10 PPM	
	Standard	50	±50 PPM	
		30	±30 PPM	
Frequency Stability	Ī	25	±25 PPM	
(Note 1)	Option	20	±20 PPM	
	Ī	15	±15 PPM	
		10	±10 PPM	
		-		
Temperature Range	Standard	See Notes	-10 to +70 °C	
	Extended	X	-40 to +85 °C	
	Packaging		Tape and Reel	

C3E-32.768-18-3050-X-R

C3E- 2.5 x 3.2 mm SMD Seam Seal Crystal Unit

32.768 MHz Nominal Frequency

18 pF Load Capacitance

3050: ±30 PPM Frequency Tolerance and ±50 PPM Frequency Stability

Fundamental Mode

X: -40 to +85° C Temperature Range

R: Tape and Reel Packaging

Notes:

1- Frequency Tolerance and Stability options are limited due to physical size.

2- Standard Temperature Range does not need to be included in Part Number description.

3- Product is shipped in Tape and Reel configuration. Each reel contains 3000 pieces.

4- Quantities less than 3000 are shipped bulk in ESD pouches.

5- Specification subject to change without notice.

Page:	4/4	Date: June 10, 20	06 P/N:	C3E Series	

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 CXAN-025000-3F12D40
 C-8.000-18-3050-X
 CXAN-040000-3F15D41
 SMBN-033333-7BL4T00
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 CA-18.432-18-3050-X
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 S53305-50.000-X

 X
 S73305-10.000-X-15
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 CAA

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 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
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 S73305-14.7456-X-15
 C3E-18.432-12-3030-X
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