RoHS Compliant Pb - Lead Free

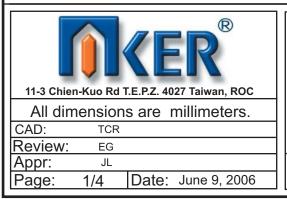
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		16.000 to 50.000	MHz	
Mode of Oscillation Fundamental		16.000 to 50.000	IVITZ	
	Standard	±30	DDM M	
		±25		
Frequency Tolerance at 25°C	Ontional	±20	PPM Max (Note 1)	
	Optional	±15	(Note 1)	
		±10		
	Standard	±50		
		±30		
Frequency Stability over		±25	PPM Max	
Temperature Range	Optional	±20	(Note 1)	
		±15		
		±10		
Operating Temperature Range	Standard	-10 to +70		
	Extended	-40 to +85	° C	
Storage Temperature Range		-55 to +125		
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	Ohms	
Drive Level		100	uW Typ	

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

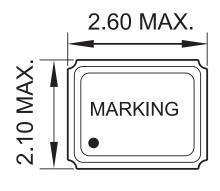


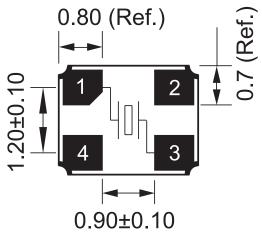
Specification Title:

Microprocessor Crystal Unit Low Profile 2.0 x 2.5 millimeter Surface Mount General Product Specification

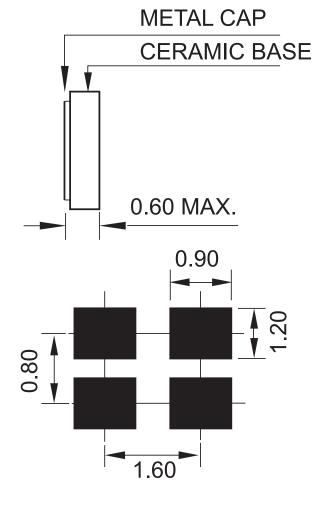
Part Number: **C2E Series**

Mechanical Outline:





#2 & #4 : GND Bottom



(Recommended Land Pattem)

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

Page:	2/4	Date: June 9, 2006	P/N:	C2E Series		
-------	-----	--------------------	------	------------	--	--

Carrier Tape Dimensions: 1.5 Dia 2.0 4.0 1.75 5.5 12.0 1.0 Direction of Feed -Dimensions are millimeters. **Solder Reflow Characteristics:** 260°C 10 seconds max **Temperature** (2 times max) 230°C 150°C 50±20 seconds 120±20 seconds Reflow Area Cooling Pre-heat Area Time (seconds) Page: **C2E Series** 3/4 Date: June 9, 2006 P/N:

How to build a Part Number:

Series		С	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 C	apacitance	16	16 pF		
Load Ca	apacitance	18	18 pF		
		20	20 pF		
		32	32 pF		
		S	Series		
		-			
	Standard	30	±30 PPM		
Frequency Tolerance		25	±25 PPM		
_		20	±20 PPM		
(Note 1)		15	± 15 PPM		
		10	±10 PPM		
	Standard	50	±50 PPM		
		30	±30 PPM		
Frequency Stability		25	±25 PPM		
(Note 1)		20	±20 PPM		
	-	15	±15 PPM		
		10	±10 PPM		
-					
Tomporoturo Posso	Standard	See Notes	-10 to +70 °C		
Temperature Range	Option	Х	-40 to +85 °C		
-					
	Packaging	R	Tape and Reel		

Part Number Example:

C2E-50.000-18-3050-R

C2E- 2.0 x 2.5 mm SMD Seam Seal Crystal Unit

50.000 MHz Nominal Frequency

18 pF Load Capacitance

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

Fundamental Mode

-10 to +70° 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:	1/1	Date: June 9, 2006	P/N·	C2E Series	
Page.	4/4	Date: June 9, 2006	P/N:	CZE Series	

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-12.000-12-50100-X-15 C3E-12.000-12-3030-X C3E-12.000-12-3030-X C3E-13.560-12-1010-X S7A33025-156.250-L-X-R