	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free				

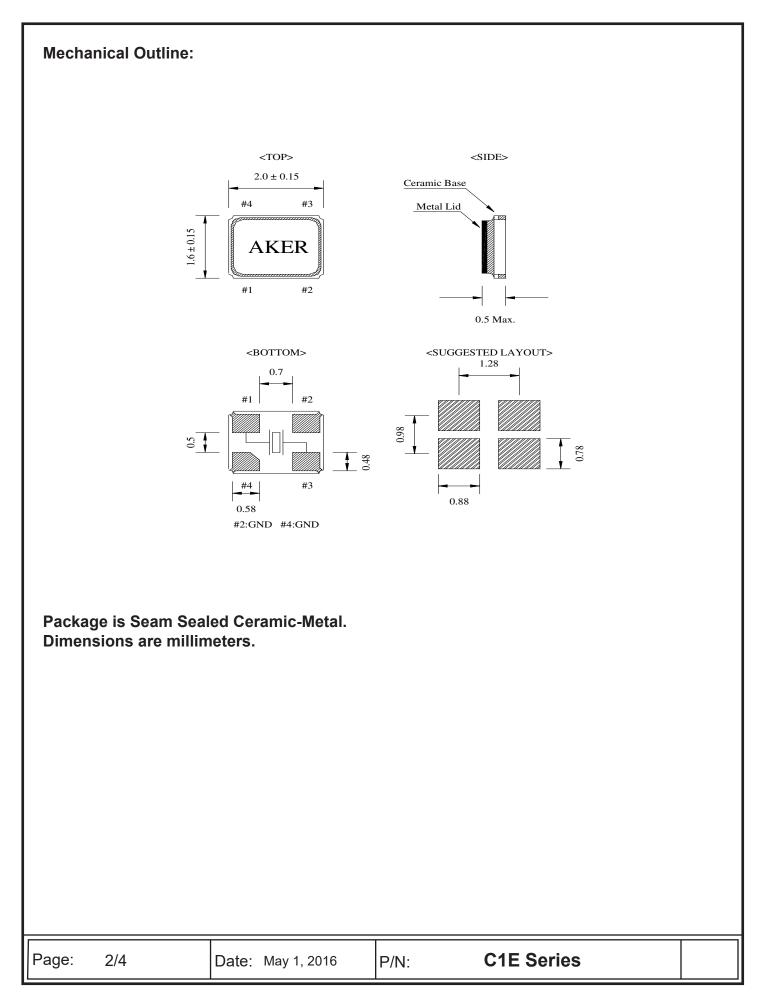
Electrical Specifications:

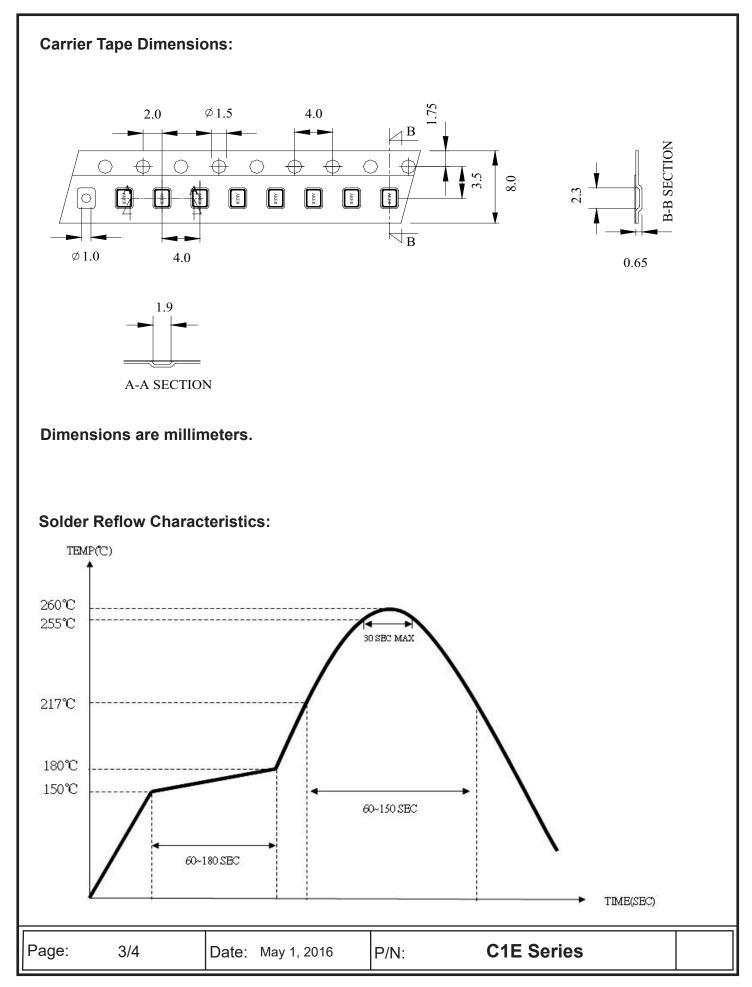
Frequency Range		16.000 to 54.000	MHz	
Mode of Oscillation	Fundamental	16.000 to 54.000	MHZ	
	Standard	±30		
		±25		
Frequency Tolerance at 25°C	Optional	±20	PPM Max (Note 1)	
	Optional	±15		
		±10		
	Standard	±50		
Fraguanay Stability aver	Optional	±30	PPM Max	
Frequency Stability over Temperature Range		±25	(Note 1)	
		±20		
		±15*		
Operating Temperature Range	Standard	-10 to +70		
Extended		-40 to +85	°C	
Storage Temperature Range		-55 to +125		
Aging		±3	PPM Max/Year	
Load Capacitance		7 to 32 and Series Resonance	nE	
Shunt Capacitance		3.0	pF	
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
16.000 to 19.199	200	Fundamental
19.200 to 25.999	100	Fundamental
26.000 to 35.999	80	Fundamental
36.000 to 54.000	60	Fundamental

Accurate Kinetic Energy 11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC	Specification Title: Microprocessor Crystal Unit Low Profile 2.0 x 1.6 millimeter Surface Mount	
All dimensions are millimeters. CAD: TCR Review: EG	General Product Specification	
Review:EGAppr:JLPage:1/4Date:May 1, 2016	Part Number: C1E Series	





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Series		С	Parameter
Package		1E	1.6 x 2.0 mm Seam Sea
F		-	N#11_
Frequency		16.000 to 54.000	MHz
		- 7	7 pF
		10	10 pF
	ľ	12	12 pF
		16	16 pF
Load Ca	apacitance	18	18 pF
		20	20 pF
	Ī	32	32 pF
		S	Series
	Standard		±30 PPM
	Stanuaru	25	±25 PPM
Frequency Tolerance	Option	20	±20 PPM
(Note 1)		15	± 15 PPM
	-	10	±10 PPM
	Standard	50	±50 PPM
_	Otanuaru	30	±30 PPM
Frequency Stability	Option	25	±25 PPM
(Note 1)		20	±20 PPM
	-	15	±15 PPM*
		-	
Temperature Range	Standard	See Notes	-10 to +70 °C
remperature Manye	Extended	X	-40 to +85 °C
		- M	250pcs Reel
Packaging	ŀ	R	1000pcs Reel
	ŀ	R3	3000pcs Reel

Part Number Example:

C1E-50.000-10-3050-R3

C1E- 1.6 x 2.0 mm SMD Seam Seal Crystal Unit

50.000 MHz Nominal Frequency

10 pF Load Capacitance

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

Fundamental Mode

-10 to +70° C Temperature Range

R3: Tape and Reel Packaging - 3000pcs

Notes:

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

* ±15 PPM Temperature Stability is only available from -30 to +85° C.

- 2- Standard Temperature Range does not need to be included in Part Number description.
- 3- Product is shipped in Tape and Reel configuration.
- 4- Quantities less than 250 are shipped in tape only.
- 5- Specification subject to change without notice.

Page: 4/4 Date: May 1, 2016 P/N: C1E Series
