	Ltr	Revisions	Date	Appr
<b>RoHS Compliant</b>				
Pb - Lead Free				

## **Electrical Specifications:**

Frequency Range		16.000 to 96.000	MHz	
Mode of Oscillation	Fundamental	16.000 to 96.000	MHz	
	Standard	±30		
	Ontional	±25	PPM Max (Note 1)	
Frequency Tolerance at 25°C		±20		
	Optional	±15		
		±10		
	Standard	±50		
		±30		
Frequency Stability over		±25	PPM Max (Note 1)	
Temperature Range	Optional	±20		
		±15		
Operating Temperature Range	Standard	-20 to +70		
	Extended	-40 to +85	°C	
Storage Temperature Range		-55 to +125		
Aging		±3	PPM Max/Year	
Load Capacitance		6 to 47 and Series Resonance	pF	
Shunt Capacitance		3.0		
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
16.000 to 19.199	200	Fundamental
19.200 to 25.999	100	Fundamental
26.000 to 35.999	80	Fundamental
36.000 to 79.999	60	Fundamental
80.000 to 96.000	40	Fundamental



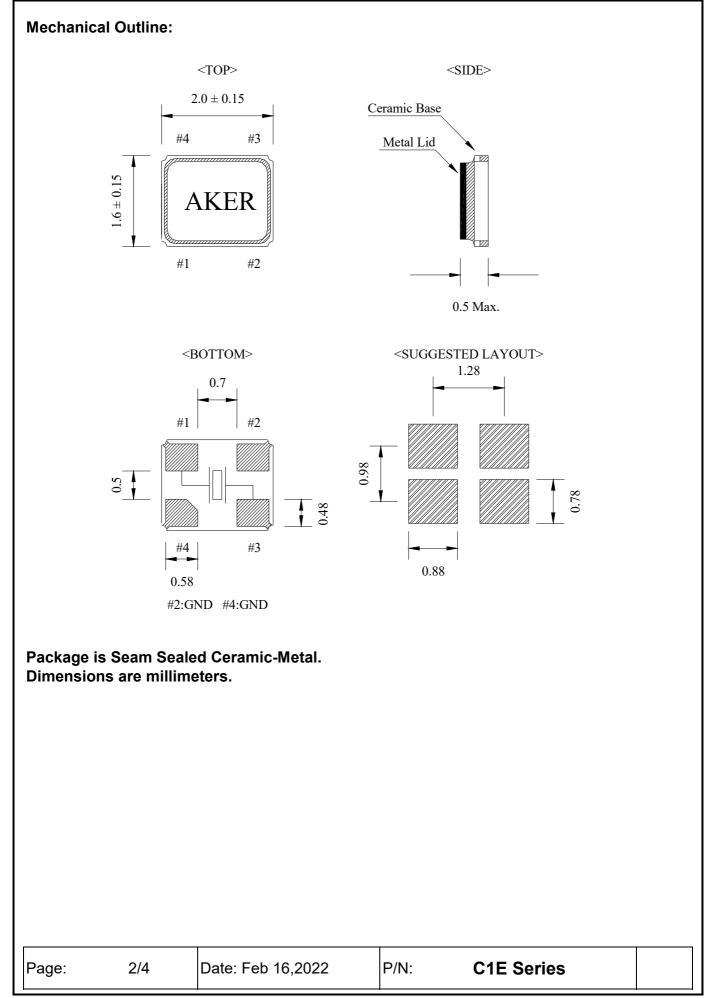
### All dimensions are millimeters.

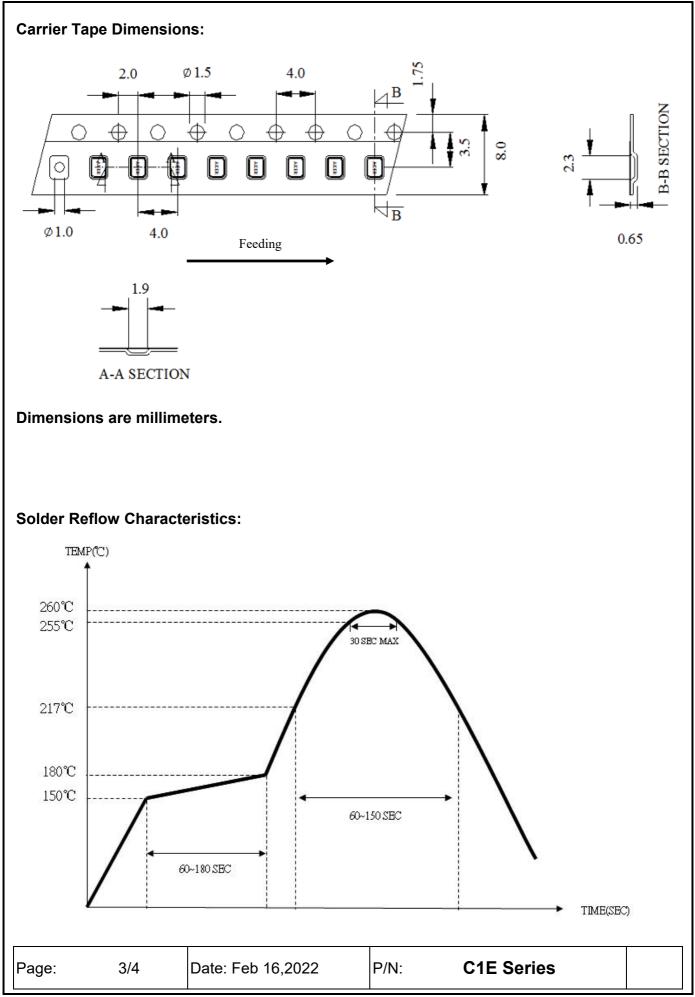
CAD:	TCR	
Review:	EG	
Appr:	JL	
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# Specification Title:

Microprocessor Crystal Unit Low Profile 2.0 x 1.6 millimeter Surface Mount General Product Specification

## Part Number: C1E Series





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	Series	С	Parameter	]	
Package		1E	2.0 x 1.6 mm	-	
Frequency		- 16.000 to 96.000	MHz	-	
		- 7	7pF		
-		10	10 pF	1	
		12	12 pF	1	
		16	16 pF	1	
Load Ca	pacitance	18	18 pF	1	
	-	20	20 pF	1	
	-	32	32 pF	1	
		S	Series	1	
	•	-			
	Standard	30	±30PPM	1	
Frequency		25	±25PPM	]	
Tolerance	Ontion	20	±20PPM	]	
(Note 1)	Option-	15	±15PPM	1	
		10	±10PPM		
	Standard	50	±50PPM	]	
Frequency Stability		30	±30PPM		
(Note 1)		25	±25PPM		
(NOLE I)	Option	20	±20PPM	1	
		15	±15PPM		
		-		_	
	Standard	See Notes	-20 to +70 ℃	_	
emperature Range	Option	X	-40 to +85 ℃	-	
	Option			-	
			250pcs Reel	_	
F	Packaging	R	1000pcs Reel	-	
	ackaging	R3	3000pcs Reel	-	
0.000 MHz Nomin 0 pF Load Capaci	0-R3 SMD Seam al Frequen itance quency To e erature Rai	lerance and ±50 PP	M Frequency Stability		
otes: - Frequency Toler - Standard Tempe - Product is shipp - Quantities less t	rance and serature Rar bed in Tape than 250pc	Stability options are	be only.		riptio
	-				