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

Electrical Specifications:

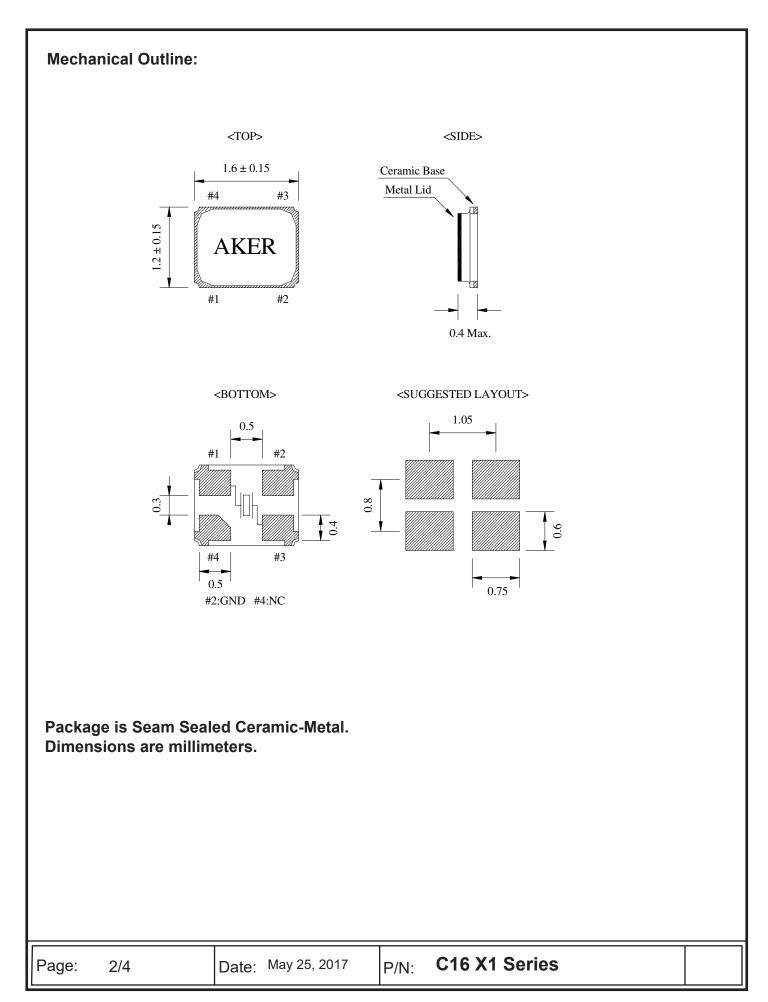
Frequency Range		24.000 to 48.000	MUL	
Mode of Oscillation	de of Oscillation Fundamental		MHz	
Frequency Tolerance at 25°C		±50	PPM Max	
Frequency Stability over Temperature Range		±100	(Note 1)	
Operating Temperature Range		-40 to +125	- °C	
Storage Temperature Range		-55 to +125		
Aging		±3	PPM Max/Year	
Load Capacitance		6 to 32 and Series Resonance	ьE	
Shunt Capacitance		3.0	- pF	
Equivalent Series Resistance (ESR)		See ESR Table	Ohm	
Drive Level		100	uW Max	

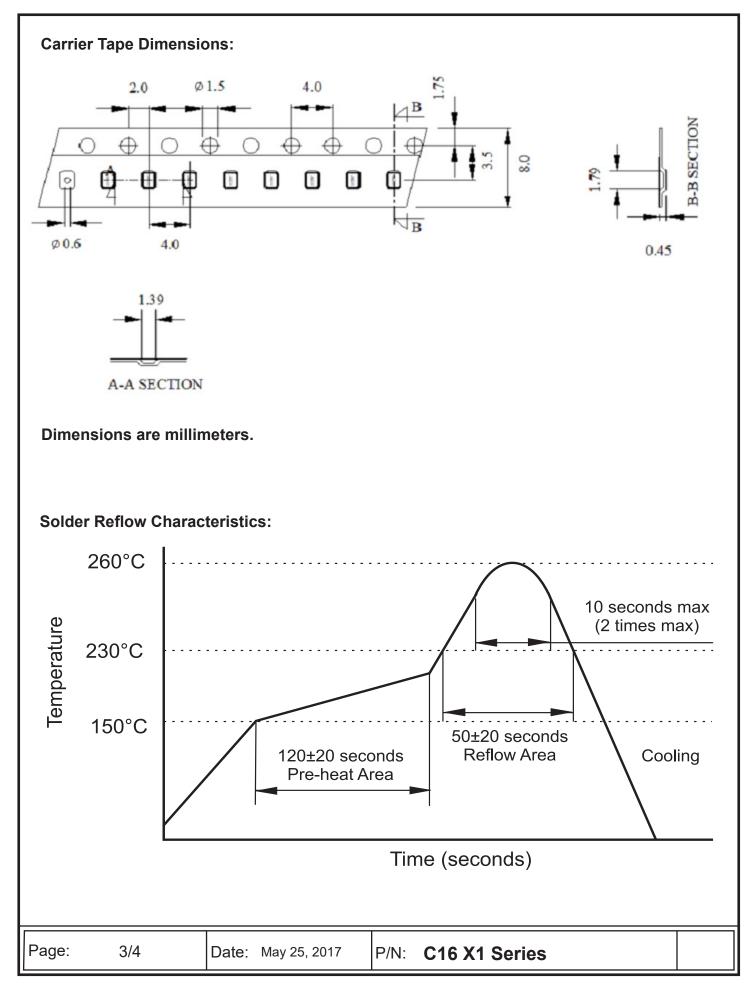
Frequency Range and ESR Values:

Frequency Range in MHz	ESR Ohm Max	Mode of Operation
24.000 to 29.999	120	Fundamental
30.000 to 36.999	100	Fundamental
37.000 to 48.000	80	Fundamental

	Specification Title:	
Accurate Kinetic Energy 11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC	Microprocessor Crystal Unit Low Profile	
All dimensions are millimeters.	1.2 x 1.6 millimeter Surface Mount General Product Specification	
CAD: TCR		
Review: EG		
Appr: JL	Part Number: C16 X1 Series	
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Series	С	Parameter	
Package	16	1.6 x 1.2 mm Seam Seal	
Frequency	- 24.000 to 48.000	MHz	
	- 6	6 pF	
	10	10 pF	
	12	12 pF	
Load Capacitance	16	16 pF	
	18	18 pF	
	20	20 pF	
	32	32 pF	
Frequency Tolerance (Note 1)	- 50	±50 PPM	
Frequency Stability (Note 1)	100	±100 PPM	
Temperature Range	- X1	-40 to +125 °C	
		250pcs / Reel	
Packaging	R	1000pcs / Reel	
	R3	3000pcs / Reel	

Part Number Example:

C16-40.000-10-50100-X1-R C16- 1.6 x 2.0 mm SMD Seam Seal Crystal Unit 40.000 MHz Nominal Frequency 10 pF Load Capacitance 50100: ±50 PPM Frequency Tolerance and ±100 PPM Frequency Stability Fundamental Mode -40 to +125° C Temperature Range R: Tape and Reel Packaging

Notes:

- 1- Frequency Tolerance and Stability options are limited due to physical size.
- 2- Product is shipped in Tape and Reel configuration.
- 4- Quantities less than 3000 are shipped bulk in ESD pouches.
- 5- Specification subject to change without notice.

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