RoHS Compliant Pb - Lead Free

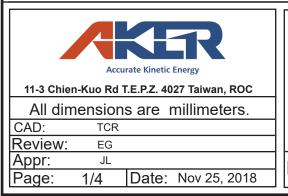
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		24.000 to 48.000	MHz	
Mode of Oscillation Fundamental		24.000 to 48.000	WIHZ	
	Standard	±30	PPM Max (Note 1)	
		±25		
Frequency Tolerance at 25°C	Ontional	±20		
	Optional -	±15		
		±10		
	Standard	±50		
Francisco Ctability aver		±30	DD14 14	
Frequency Stability over Temperature Range	Optional	±25	PPM Max (Note 1)	
Temperature Kange		±20	(Note 1)	
		±15*		
Operating Temperature Pange	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		6 to 32 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 ± 15Vdc	M Ohm	

Frequency Range and ESR Values:

Frequency Range in MHz	ESR Ohm Max	Mode of Operation
24.000 to 29.999	150	Fundamental
30.000 to 36.999	100	Fundamental
37.000 to 48.000	80	Fundamental



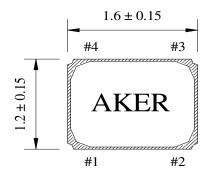
Specification Title:

Microprocessor Crystal Unit Low Profile 1.2 x 1.6 millimeter Surface Mount General Product Specification

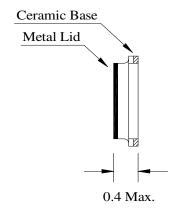
Part Number: C16 Series

Mechanical Outline:

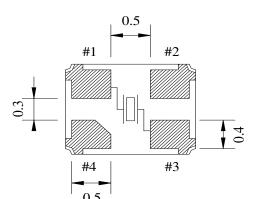
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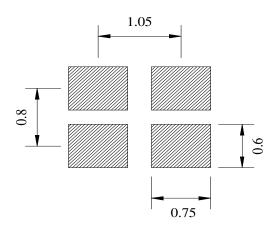


<BOTTOM>



#2:GND #4:NC

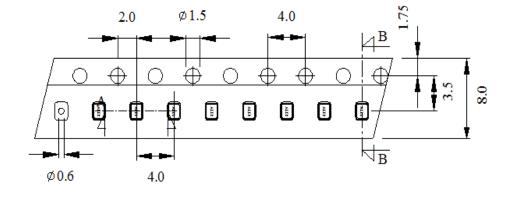
<SUGGESTED LAYOUT>

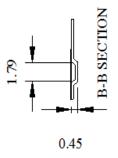


Package is Seam Sealed Ceramic-Metal. Dimensions are millimeters.

Page: 2/4 Date: July 25, 2013 P/N: **C16 Series**

Carrier Tape Dimensions:





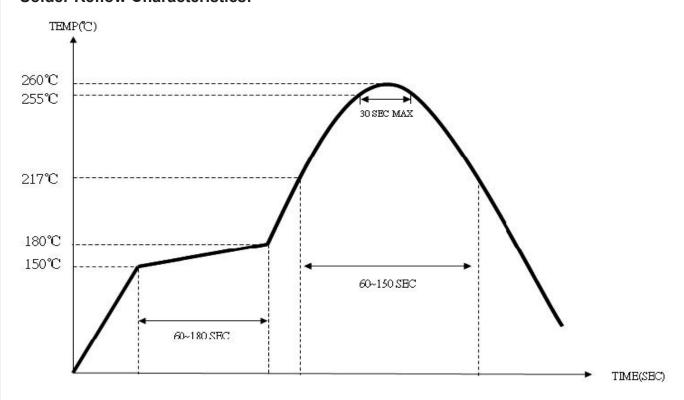


Dimensions are millimeters.

Solder Reflow Characteristics:

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P/N:

Date: Nov 25, 2018

C16 Series

How to build a Part Number:

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 Ca	apacitance	16	16 pF	
		18	18 pF	
		20	20 pF	
		32	32 pF	
		-		
	Standard	30	±30 PPM	
Frequency Tolerance	Option-	25	±25 PPM	
(Note 1)		20	±20 PPM	
(Note 1)		15	± 15 PPM	
		10	±10 PPM	
	Standard	50	±50 PPM	
Frequency Stability	Option -	30	±30 PPM	
(Note 1)		25	±25 PPM	
(Note 1)		20	±20 PPM	
		15	±15 PPM*	
		-		
Temperature Range	Standard	See Notes	-10 to +70 °C	
remperature Range	Extended	Х	-40 to +85 °C	
		-		
		M	250pcs Reel	
Packaging		R	1000pcs Reel	
		R3	3000pcs Reel	

Part Number Example:

C16-40.000-10-3030-R

C16- 1.6 x 2.0 mm SMD Seam Seal Crystal Unit

40.000 MHz Nominal Frequency

10 pF Load Capacitance

3030: ±30 PPM Frequency Tolerance and ±30 PPM Frequency Stability

Fundamental Mode

-20 to +70° C Temperature Range

R: Tape and Reel Packaging - 1000pcs

Notes:

- 1- Frequency Tolerance and Stability options are limited due to physical size.
 - * ±10 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 250pcs are shipped in tape only.
- 5- Specification subject to change without notice.

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