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**	
Frequency Tolerance at 25°C	**Standard**	**±30**	**PPM Max (Note 1)**
	Optional	**±25**	
		±20	
		±15	
		±10	
Frequency Stability over Temperature Range	**Standard**	**±50**	**PPM Max (Note 1)**
	Optional	**±30**	
		±25	
		±20	
		±15*	
Operating Temperature Range	**Standard**	**-10 to +70**	**° C**
	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**

Accurate Kinetic Energy
11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC

All dimensions are millimeters.

CAD:	TCR
Review:	EG
Appr:	JL
Page: 1/4	Date: Nov 25, 2018

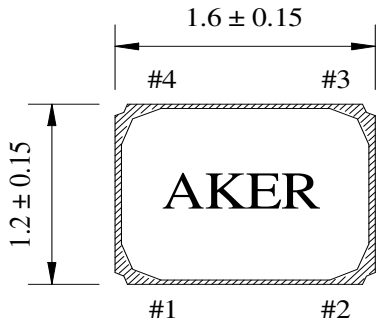
Specification Title:

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

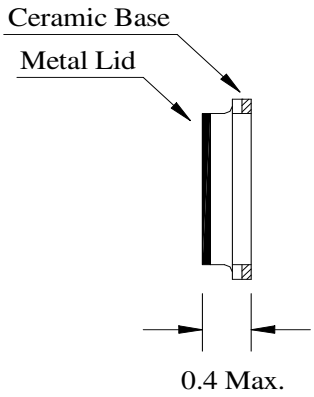
Part Number: **C16 Series**

Mechanical Outline:

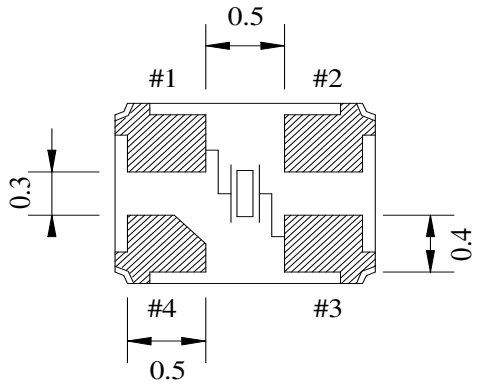
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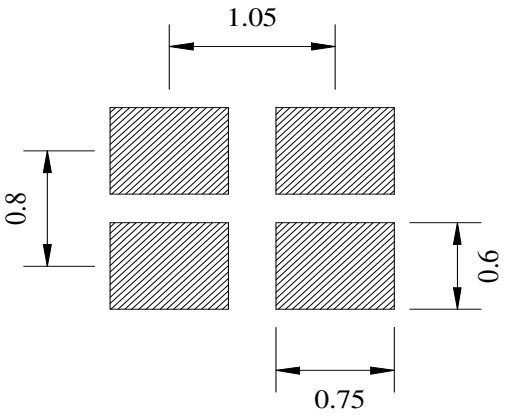


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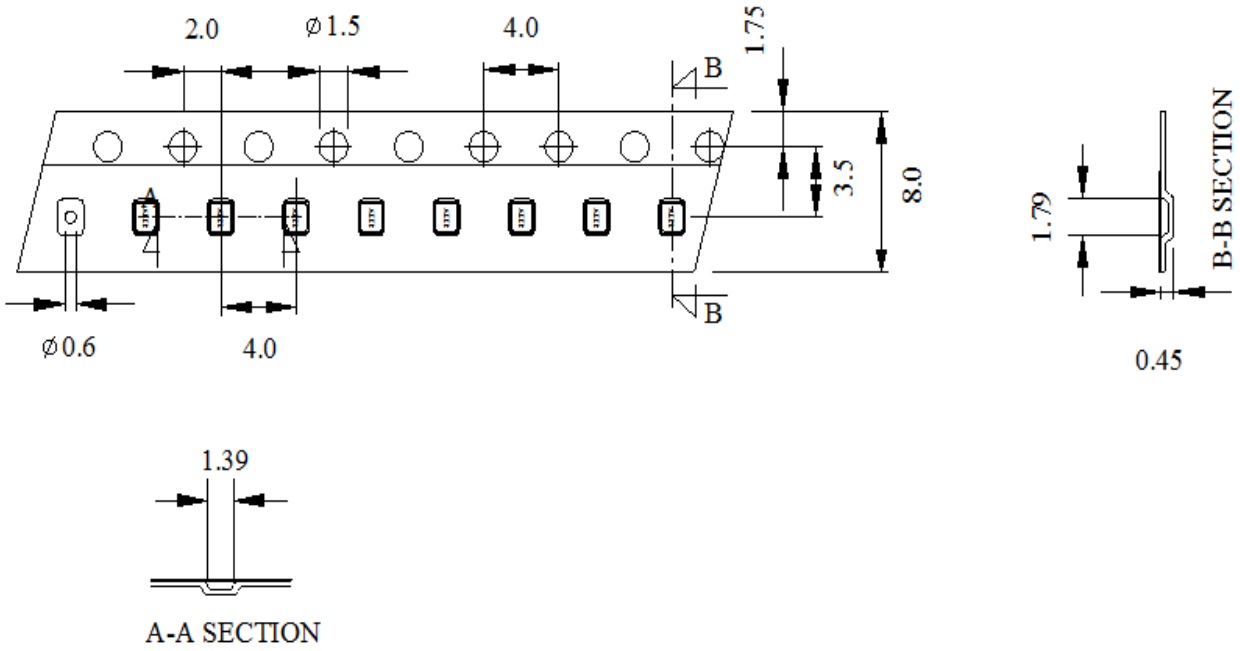
#2:GND #4:NC

<SUGGESTED LAYOUT>



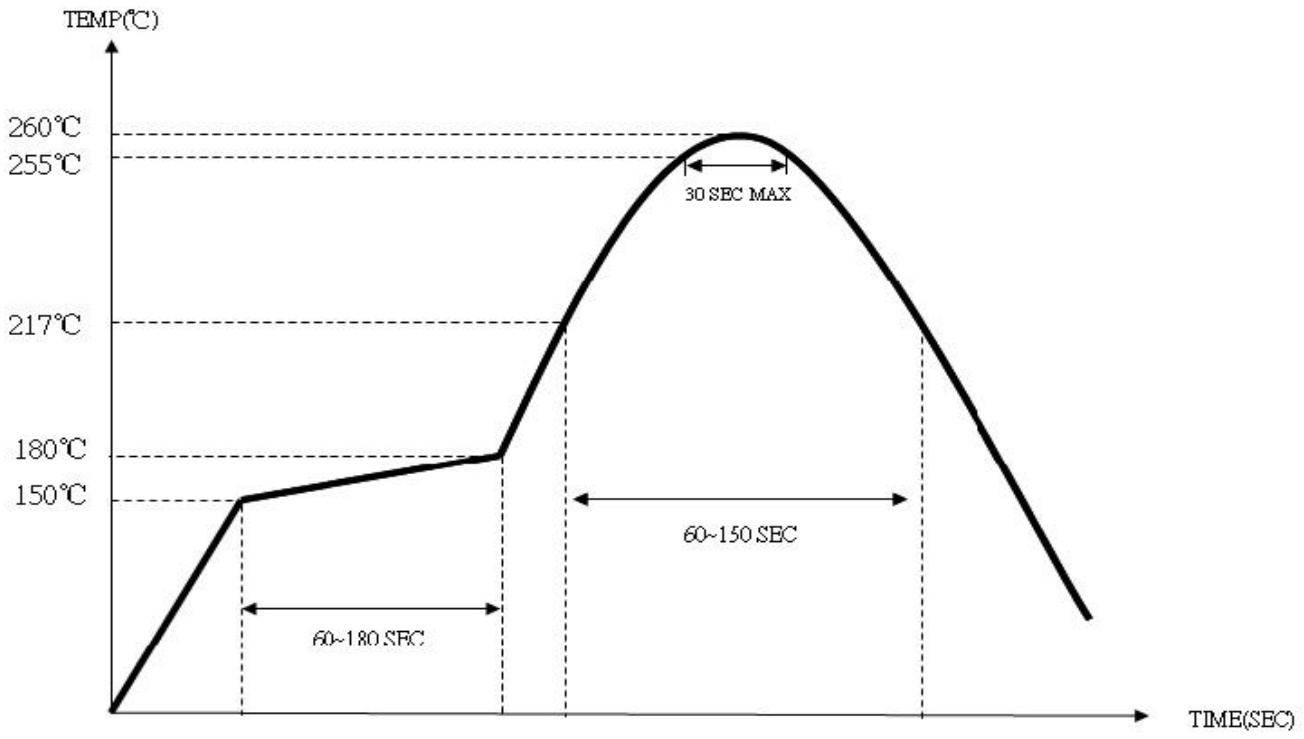
Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



How to build a Part Number:

Series		C	Parameter
Package		16	1.6 x 1.2 mm Seam Seal
		-	
Frequency		24.000 to 48.000	MHz
		-	
Load Capacitance		6	6 pF
		10	10 pF
		12	12 pF
		16	16 pF
		18	18 pF
		20	20 pF
		32	32 pF
		-	
Frequency Tolerance (Note 1)	Standard	30	±30 PPM
	Option	25	±25 PPM
		20	±20 PPM
		15	± 15 PPM
		10	±10 PPM
Frequency Stability (Note 1)	Standard	50	±50 PPM
	Option	30	±30 PPM
		25	±25 PPM
		20	±20 PPM
		15	±15 PPM*
		-	
Temperature Range	Standard	See Notes	-10 to +70 ºC
	Extended	X	-40 to +85 ºC
		-	
Packaging		M	250pcs Reel
		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.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

AKER Technology:

C3E-12.000-12-3030-R C6S-11.0592-12-3030-X CA-18.432-18-3050-X C5S-10.000-12-3030-X
C5S-24.000-12-3030-X C5S-25.000-12-3030-X CAA-16.000-18-3050-X C3E-16.000-12-3030-X
C3E-16.000-8-50150-A-X3-R C3E-20.000-12-3030-X C7S-8.000-12-3030-X C3E-20.000-12-50100-X1
C6S-16.000-12-3030-X CA-7.3728-18-3050-X CAA-4.194304-18-3050-X C3E-12.000-12-1010-X
C3E-16.000-12-1010-X C5S-12.000-12-3030-X S73305-14.7456-X-15 C1E-24.000-12-3030-X
C3E-24.000-12-3030-X C5S-25.000-12-50100-X1 S73305-12.000-X-15 C3E-12.000-12-3030-X
TX32-33025S-40.000-X-R S53305-16.000-X C3E-32.000-12-1010-R C7S-6.000-12-3030-X
CAA-18.432-18-3050-X CAA-3.6864-18-3050-X