	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free				

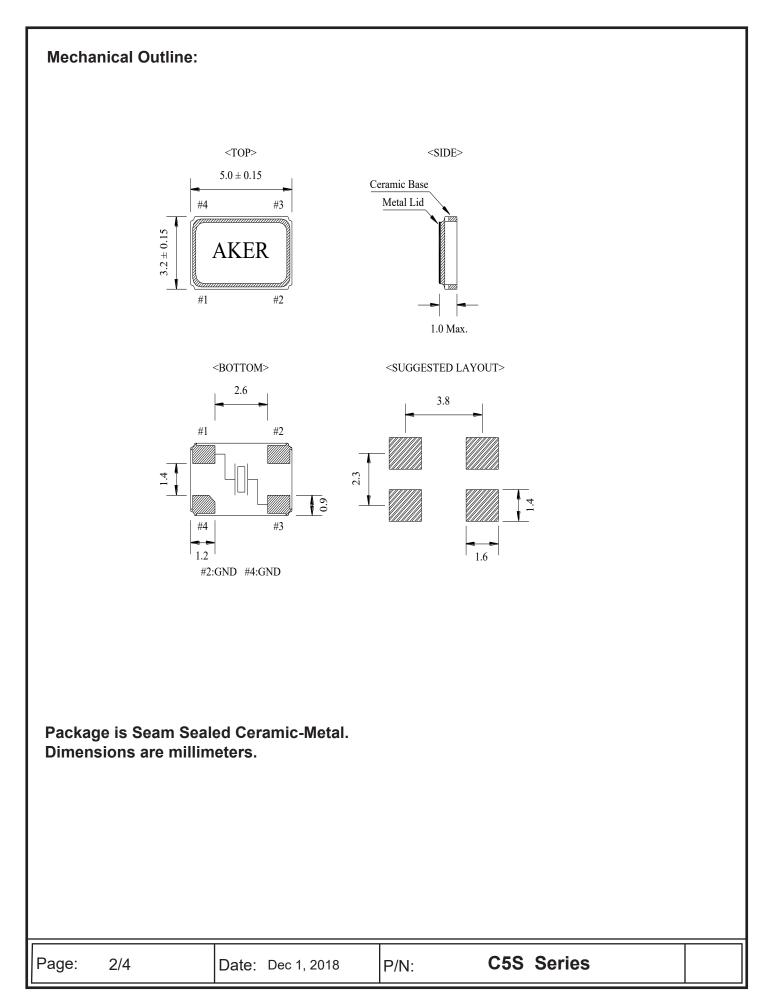
Electrical Specifications:

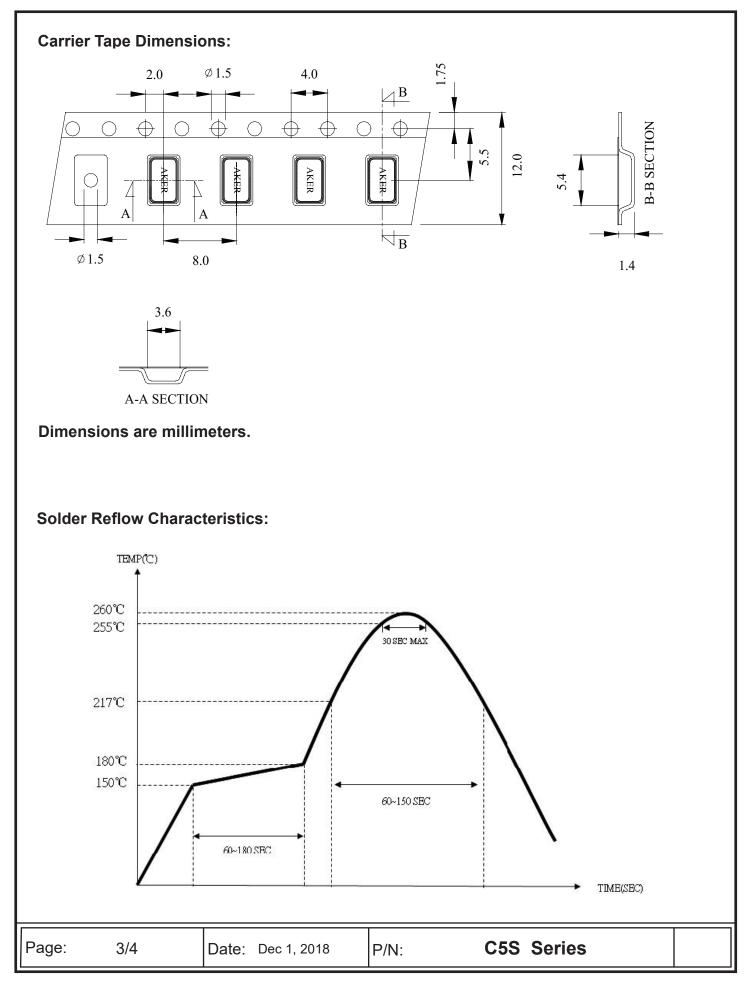
Frequency Range		8.000 to 133.000	MHz	
Mode of Oscillation	Fundamental	8.000 to 54.000	MHZ	
mode of Oscillation	Third Overtone 40.000 to 133.000			
	Standard	±30		
		±25		
Frequency Tolerance at 25°C	Ontional	±20	PPM Max	
	Optional -	±15		
		±10		
	Standard	±50		
		±30		
Frequency Stability over		±25	PPM Max	
Temperature Range	Optional	±20		
		±15		
		±10*		
Operating Temperature Bange	Standard	-10 to +70		
Operating Temperature Range	Extended	-40 to +85	°C	
Storage Temperature Range		-55 to +125		
Aging		±3	PPM Max/Year	
Load Capacitance		6 to 32 and Series Resonance	pF	
Shunt Capacitance		7.0	р	
Equivalent Series Resistance (ESR	R)	See ESR Table	Ohm	
Drive Level		100	uW Typ	
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	Frequency Range in MHz	ESR Ohm Max	Mode of Operation
8.000 to 9.749	70	Fundamental	40.000 to 79.999	100	3rd Overtone
9.750 to 9.999	60	Fundamental	80.000 to 99.999	80	3rd Overtone
10.000 to 11.999	45	Fundamental	100.000 to 133.000	60	3rd Overtone
12.000 to 15.999	35	Fundamental			
16.000 to 19.999	30	Fundamental			
20.000 to 49.999	25	Fundamental			
50.000 to 54.000	20	Fundamental]		

Accurate Kinetic Energy	Specification Title:	
11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC All dimensions are millimeters.	Microprocessor Crystal Unit 5.0 x 3.2 millimeter Surface Mount General Product Specification	
CAD: TCR Review: EG	Scheral Froduct Opcomotation	
Appr: JL Page: 1/4 Date: Dec 1, 2018	Part Number: C5S Series	





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Series		С	Parameter
Package		5S	5.0 x 3.2 mm
Frequency		8.000 to 133.000	MHz
		-	
		6	6 pF
		10	10 pF
		12	12 pF
Load C	apacitance	16	16 pF
	apaonanoe	18	18 pF
		20	20 pF
		32	32 pF
		S	Series
	Standard	- 30	±30 PPM
	Stanuaru	20	±20 PPM
requency Tolerance	Ontion	15	±20 PPM ±15 PPM
	Option	10	± 10 PPM
	Standard	50	± 10 PPM ±50 PPM
	Stanuaru	30	±30 PPM
Frequency Stability	-	20	±20 PPM
Frequency Stability	Option	15	±20 PPM ±15 PPM
	-	10	±10 PPM*
		-	
Mada af		See Notes	Fundamental
wode of	Oscillation	3	Third Overtone
		-	40.1
emperature Range	Standard	See Notes	-10 to +70 °C
. 0	Option	X	-40 to +85 °C
		 M	250pcs Reel
	Packaging	R	1000pcs Reel

ow to build a Part Number

R: Tape and Reel Packaging

Notes:

- 1- Fundamental mode does not need to be included in Part Number description.
- * ±10 PPM Temperature Stability is only available from -30 to +85° C.
- 2- Other Load Capacitances are available other than those listed in Part Number table above.
- **3-** Product is shipped in Tape and Reel configuration.
- 4- Quantities less than 250pcs are shipped in tape
- 5- Specification subject to change without notice

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