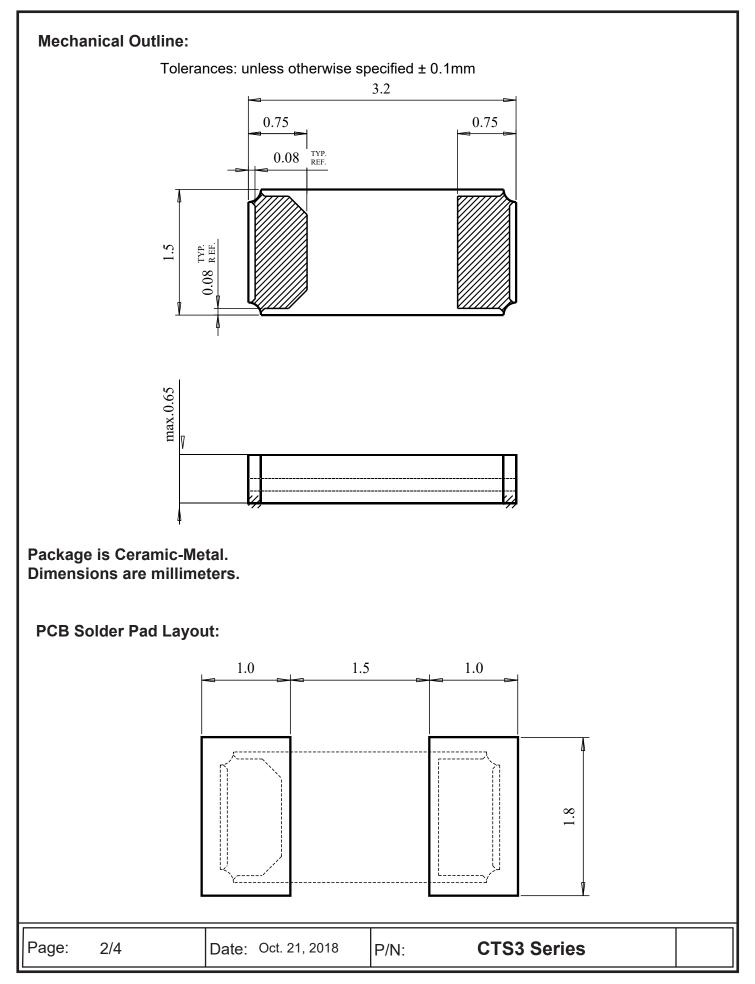
	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free AEC Q200				

## **Electrical Specifications:**

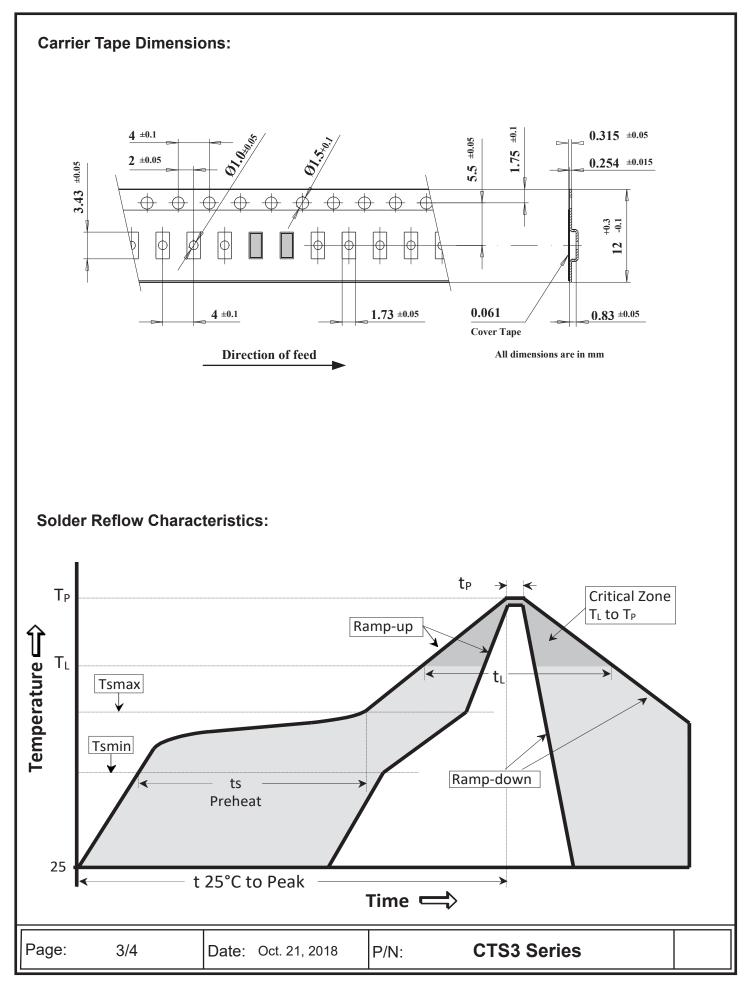
Nominal Frequency		32.768	KHz	
Fraguency Tolorance at 25° C	Standard	±20		
Frequency Tolerance at 25° C	Optional	±10	PPM	
Aging per year		±3	7	
Turnover Temperature		25 ±5		
Temperature Coefficient		-0.034 ± 0.008 PPM/∆ °C²	° C	
Temperature Range		-40 to +85		
Temperature Range (Extended)		-40 to +125		
Temperature Range (Storage)		-55 to +140		
Equivalent Series Resistance		70	K Ohm Max	
	Standard	12.5		
Land Connectore	Optional	6.0		
Load Capacitance		7.0	- pF	
		9.0		
Shunt Capacitance		1.7	рF Тур	
Motional Capacitance		3.0	fF Typ	
Drive Level		1.0	uW Max	
Insulation Resistance		500 at at 100 Vdc ± 15 Vdc	M Ohm Min	
Quality Factor		70000	Tun	
Capacitance Ratio		450	Тур	
Resistance to Shock		±5 PPM maximum offset from 75 cm drop	· -	
		test in all axes on to a hard surface.		

Accurate Kinetic Energy 11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC All dimensions are millimeters. CAD: TCR Review: EG	Specification Title: Microprocessor Crystal Unit 32.768 KHz (Time of Day) 3.2 x 1.5 millimeter Surface Mount Ceramic Package General Product Specification		
Appr: JL   Page: 1/4 Date: Oct. 21, 2018	Part Number: CTS3 Series		

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How to build a Part Number:

	Series	CTS	Parameter
	Package	3	3.2 x 1.5 mm SMD
			-
Frequency		32.768	KHz
			-
	Standard	12.5	12.5 pF
Load Canaditance		6	6 pF
Load Capacitance	Option	7	7 pF
		9	9 pF
			-
Frequency Tolerance		20	±20 PPM
			-
Temperat	ure Range	See Notes	-40 to +85 °C
Temperature Range (Extended)		Х	-40 to +125 °C
			-
Packaging		R	Tape and Reel

Part Number Example:

CTS3-32.768-9-20-R CTS3- 3.2 x 1.5 mm SMD Crystal Unit 32.768 KHz Nominal Frequency 9 pF Load Capacitance 20: ±20 PPM Frequency Tolerance -40 to +85° C Temperature Range R: Tape and Reel Packaging

Frequency vs. Temperature Characteristics:

