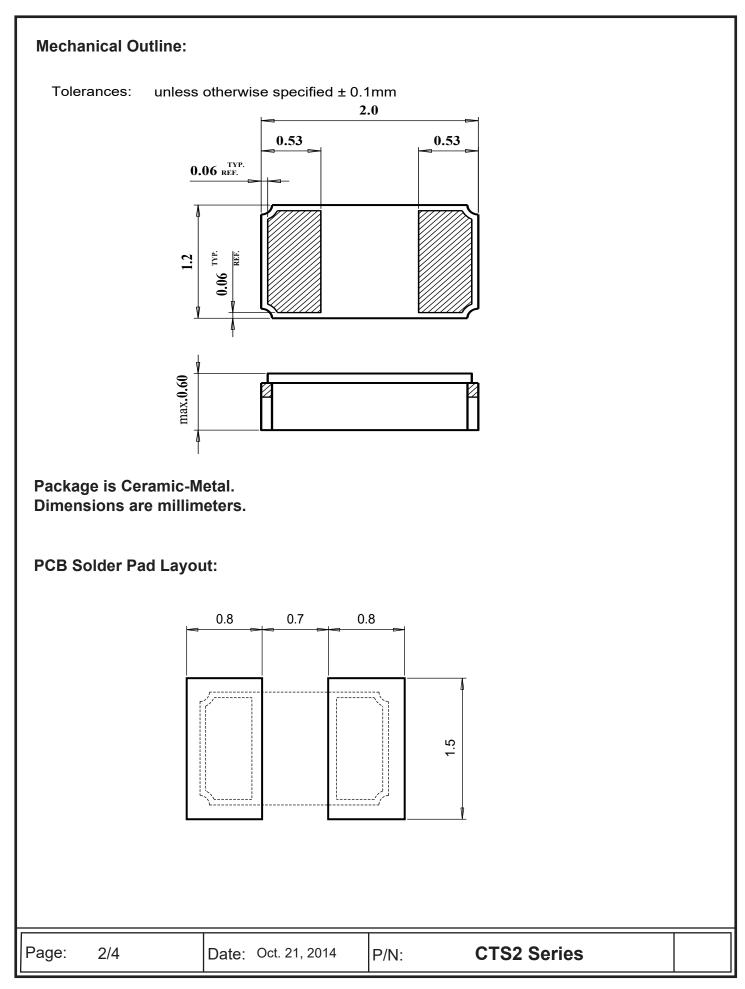
	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free				

Electrical Specifications:

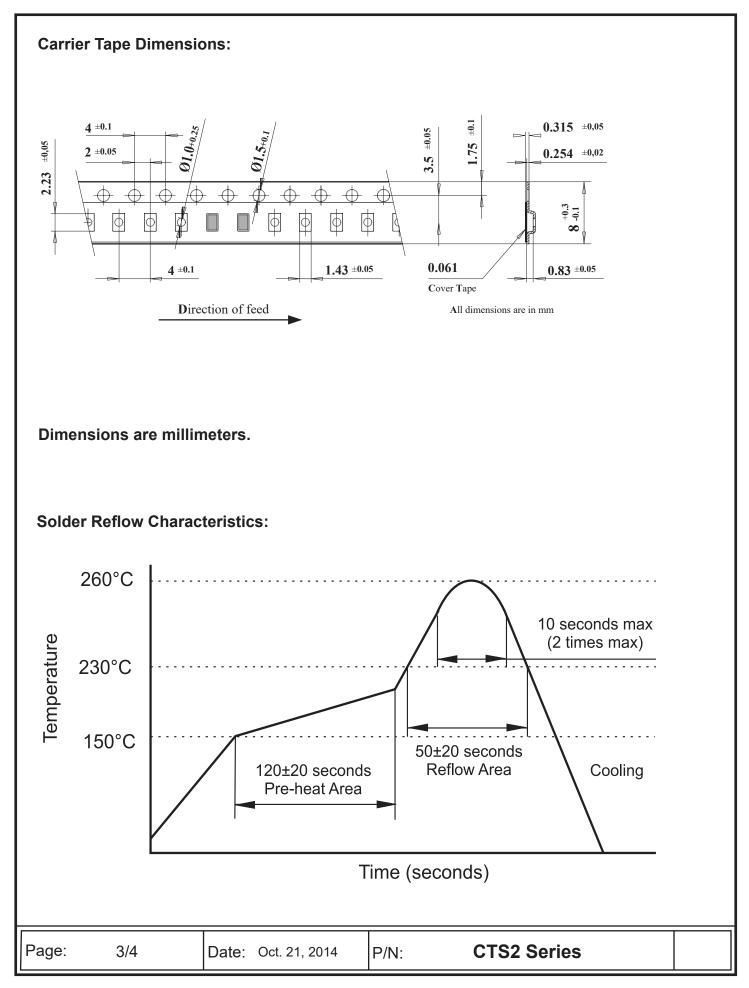
Nominal Frequency		32.768	KHz	
Frequency Tolerance at 25° C	Standard	±20		
Frequency Tolerance at 25° C	Optional	±10	PPM	
Aging per year		±3]	
Turnover Temperature		25 ±5	°C	
Temperature Coefficient		-0.034 ± 0.008 PPM/∆ °C²		
Temperature Range Temperature Range (Extended)		-40 to +85		
		-40 to +125		
Temperature Range (Storage)		-55 to +140	7	
Equivalent Series Resistance		90	K Ohm Max	
	Standard	12.5	рF	
Lood Conscitance	Optional	6.0		
Load Capacitance		7.0		
		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) 2.0 x 1.2 millimeter Surface Mount Ceramic Package General Product Specification	
Appr: JL Page: 1/4 Date: Oct. 21, 2014	Part Number: CTS2 Series	

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Series		Parameter
Package		2.0 x 1.2 mm SMD
	-	
Frequency		KHz
	-	
Standard	12.5	12.5 pF
	6	6 pF
Option	7	7 pF
	9	9 pF
	-	
Standard	20	±20 PPM
Optional	10	±10 PPM
	-	
Temperature Range		-40 to +85 °C
Temperature Range (Extended)		-40 to +125 °C
	Frequency Standard Option Standard Optional ure Range	Frequency 32.768 Standard 12.5 Option 7 9 Standard 20 Optional 10 ure Range See Notes

Part Number Example:

CTS2-32.768-9-20-R CTS2: 2.0 x 1.2 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:

