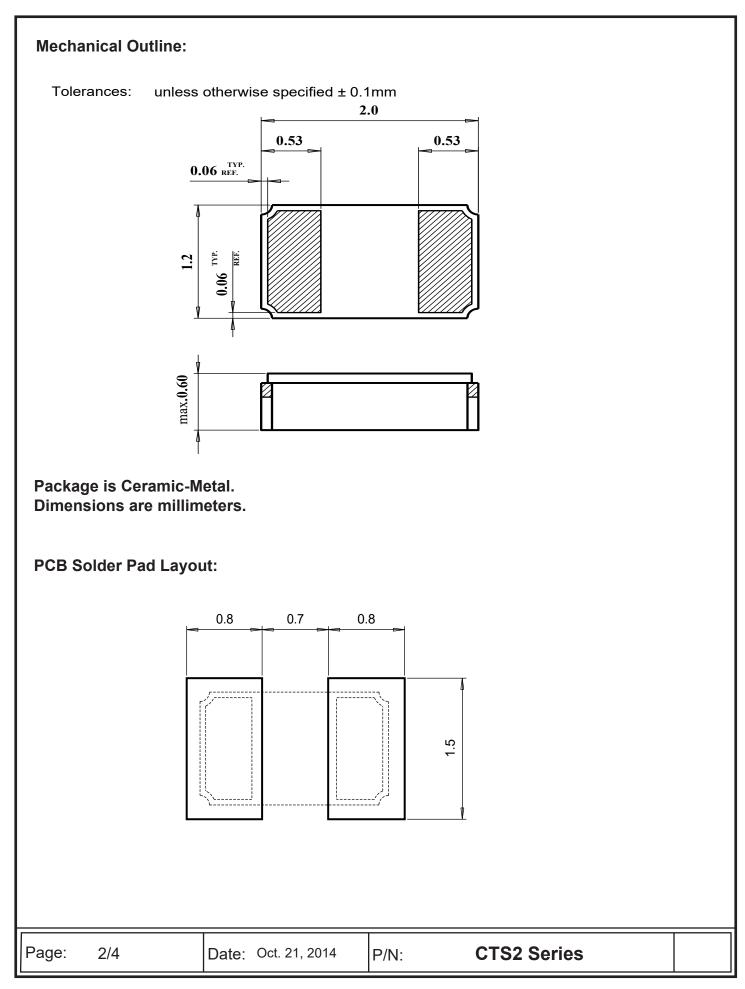
	Ltr	Revisions	Date	Appr
RoHS Compliant				
Pb - Lead Free				

Electrical Specifications:

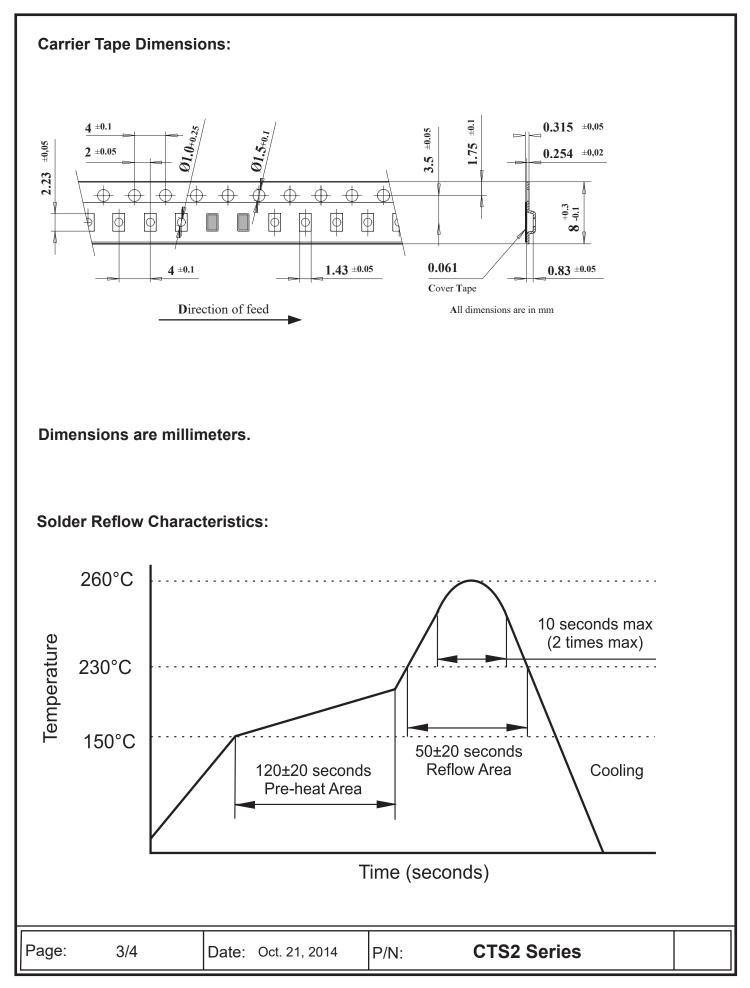
Nominal Frequency		32.768	KHz	
Frequency Tolerance at 25° C	Standard	±20		
Frequency Tolerance at 25° C	Optional	±10	PPM	
Aging per year		±3		
Turnover Temperature		25 ±5	°C	
Temperature Coefficient		-0.034 ± 0.008 PPM/∆ °C²		
Temperature Range		-40 to +85		
Temperature Range (Extended)		-40 to +125	1	
Temperature Range (Storage)	• •			
Equivalent Series Resistance			K Ohm Max	
	Standard	12.5	pF	
Load Canacitance	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: J∟ Page: 1/4 Date: Oct. 21, 2014	Part Number: CTS2 Series	

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Series		CTS	Parameter
Package		2	2.0 x 1.2 mm SMD
		-	
Frequency		32.768	KHz
		-	
	Standard	12.5	12.5 pF
Load Canacitanco		6	6 pF
Load Capacitance	Option	7	7 pF
		9	9 pF
		-	
Frequency Tolerance	Standard	20	±20 PPM
	Optional	10	±10 PPM
		-	•
Temperature Range		See Notes	-40 to +85 °C
Temperature Range (Extended)			-40 to +125 °C

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:

