RoHS Compliant Pb - Lead Free AEC-Q200 Qualified

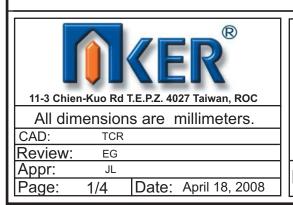
Ltr	Revisions	Date	Appr

### **Electrical Specifications:**

Frequency Range		8.000 to 150.000		
Mode of Oscillation	Fundamental	8.000 to 52.000	MHz	
Mode of Oscillation	Third Overtone	40.000 to 150.000		
Frequency Tolerance at 25°C		±50	PPM Max	
Frequency Stability over Temper	ature Range	±100		
Operating Temperature Range		-40 to +125	° C	
Storage Temperature Range		-55 to +150		
Aging per Year		±3	PPM Max	
Load Capacitance		10 to 32 and Series Resonance	"E	
Shunt Capacitance		7.0	pF	
Equivalent Series Resistance (ESR)		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
8.000 to 10.000	150	Fundamental
10.100 to 12000	90	Fundamental
12.100 to 15.000	70	Fundamental
15.100 to 30.000	50	Fundamental
30.100 to 52.000	30	Fundamental
40.000 to 52.000	100	Third Overtone
52.100 to 80.000	100	Third Overtone
80.100 to 150.000	80	Third Overtone

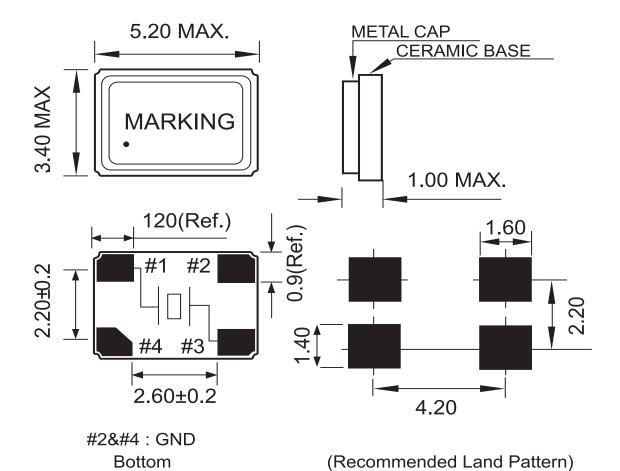


# Specification Title:

Microprocessor Crystal Unit Automotive Temperature Range 5.0 x 3.2 millimeter Surface Mount General Product Specification

Part Number: C5S X1 Series

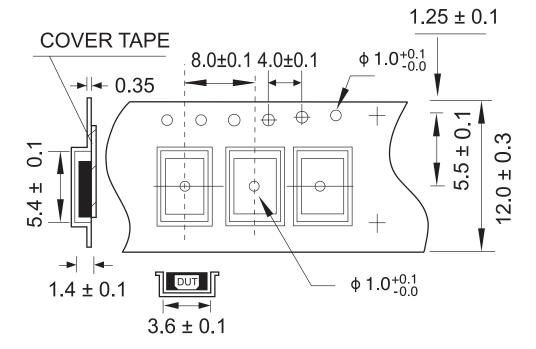
## **Mechanical Outline:**



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

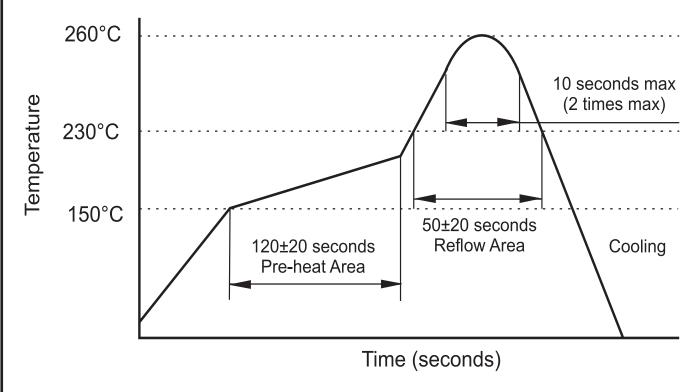
Page: 2/4 Date: April 18, 2008 P/N: **C5S X1 Series** 

## **Carrier Tape Dimensions:**



Dimensions are millimeters.

#### **Solder Reflow Characteristics:**



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 Date: April 18, 2008
 P/N:
 C5S X1 Series

#### How to build a Part Number:

Series	С	Parameter		
Package	5S	5.0 x 3.2 mm		
	-			
Frequency	8.000 to 150.000	MHz		
	-			
	10	10 pF		
	12	12 pF		
	16	16 pF		
Load Capacitance	18	18 pF		
	20	20 pF		
	32	32 pF		
	S	Series		
	-			
Frequency Tolerance	50	±50 PPM		
Frequency Stability	100	±100 PPM		
	-			
Mode of Oscillation	See Notes	Fundamental		
wode of Oscillation	3	Third Overtone		
Temperature Range	X1	-40 to +125 °C		
	-			
Packaging	R	Tape and Reel		

Part Number Example: C5S-40.000-18-50100-X1-R

C5S: 5.0 x 3.2 mm SMD Seam Sealed Package

**40.000 MHz Nominal Frequency** 

18 pF Load Capacitance

50100: ±50 PPM Frequency Tolerance and ±100 PPM Frequency Stability

X1: -40 to +125° C Automotive Temperature Range

R: Tape and Reel Packaging

#### Notes:

- 1- Fundamental mode does not need to be included in Part Number description.
- 2- Othe Load Capacitances are availble than those listed in Part Number table above.
- 3- Product is shipped in Tape and Reel configuration. Each reel contains 1000 pieces.
- 4- Quantities less than 1000 are shipped bulk in ESD pouches.
- 5- Specification subject to change without notice

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