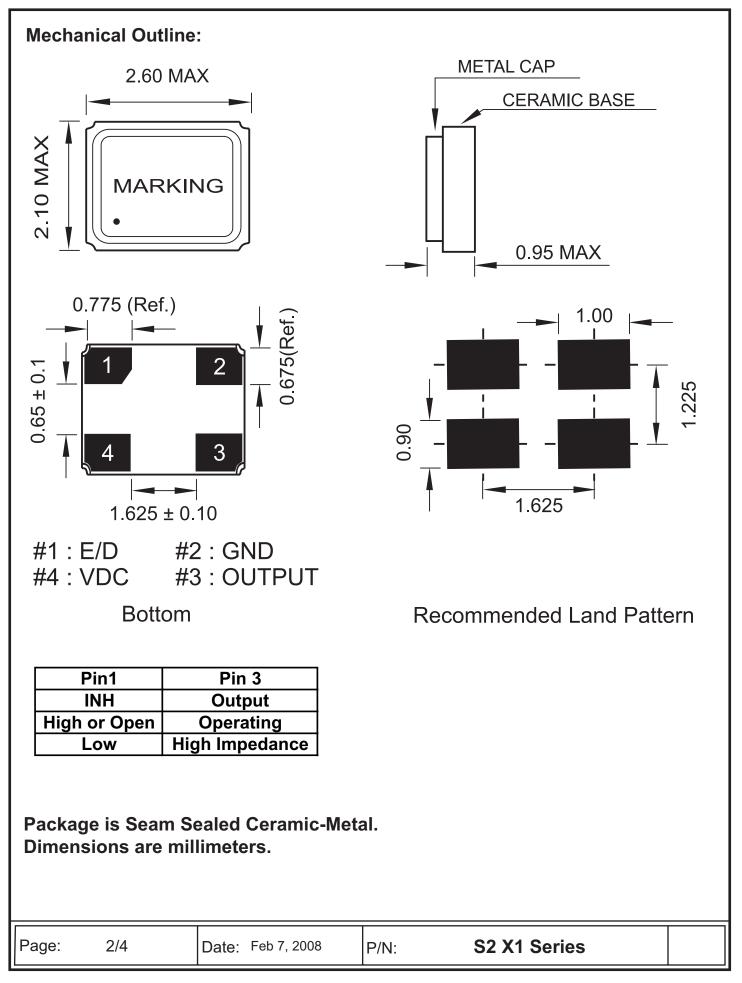
	Ltr	Revisio	ons	Date	Appr
RoHS Compliant					
Pb - Lead Free					
AEC-Q200 Qualified					
		•			
Electrical Specification	ons:				
Fraguanay Panga			2 000 to 50 000	N/	U-

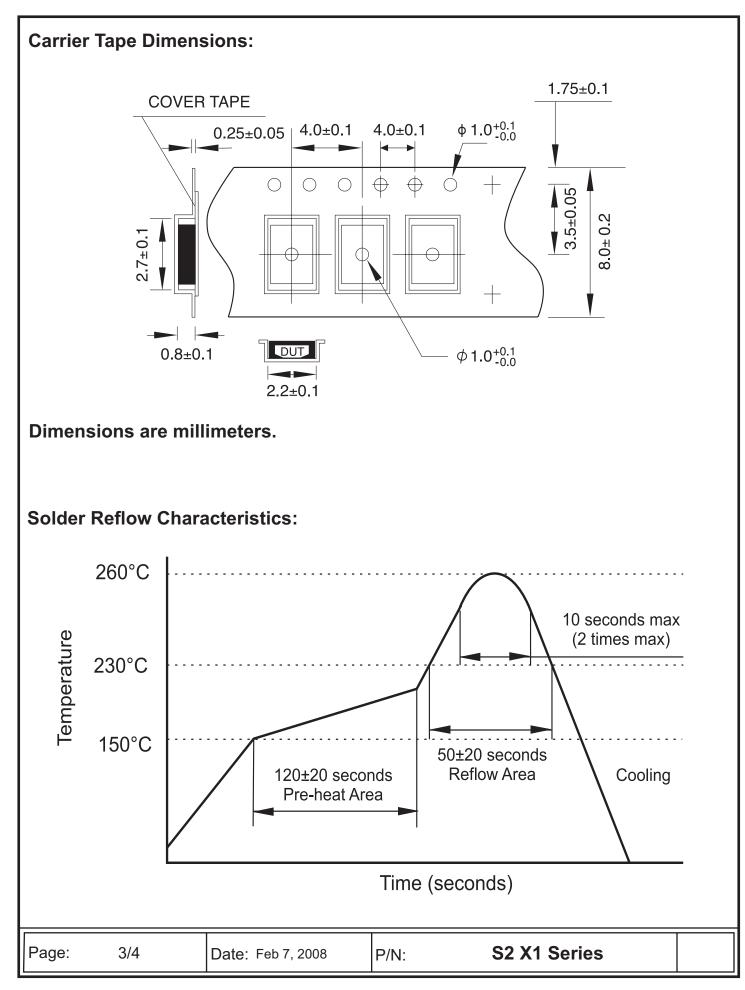
Frequency Range	2.000 to 50.000		MHz		
Temperature Stability		±100		PPM Max	
Aging per Year		±3			
Operating Temperature Range	Standard	-40 to +125		°C	
Operating remperature Range	Extended	-40 to +85			
Storage Temperature Range		-55 to +150			
Supply Voltage		+2.5 ± 5%	+3.3 ± 5%	Vdd	
	2.000 to 10.000 MHz	6	7		
Input Current	10.100 to 20.000 MHz	8	7	mA Max	
input current	20.100 to 32.000 MHz	8	12		
	32.100 to 50.000 MHz	20	20		
Output Voltage	Logic High (Voh)	90%		Vdd Min	
Output Voltage	Logic Low (Vol)	10%		Vdd Max	
Output Symmetry (Duty Cycle)	Standard	40 to 60		%	
Output Symmetry (Duty Cycle)	Tight	45 to 55			
Output Load	15		рF		
Output Level	CMOS		-		
Phase Jitter (12 KHz to 20 MHz)		1		ps Max RMS	
Rise and Fall Time	7		ns Max		
Standby Function	Tri-State		-		
Start Up Time	10		ms Max		

Temperature stability is Inclusive of all conditions:

Calibration Tolerance at +25°C, frequency stability over the operating temperature range, supply voltage, supply voltage change, output load changes, shock, vilbration, and 1st year aging at +25°C.

11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC All dimensions are millimeters.	Specification Title: Clock Oscillator Automotive Temperature Range Ultra Miniature 2.5 x 2.0 millimeter Surface Mount General Product Specification	
CAD: TCR		
Review: EG		
Appr: JL Page: 1/4 Date: Feb 7, 2008	Part Number: S2 X1 Series	





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How to build a Part Number:

Series	S	Parameter
Package	2	2.5 x 2.0 mm
Supply Voltore	33	+3.3 Vdd ± 5%
Supply Voltage	25	+2.5 Vdd ± 5%
Temperature Stability	10	±100 PPM
Duty Cycle	See Notes	40/60%
Duty Cycle	Т	45/55%
	-	
Frequency	2.000 to 50.000	MHz
	-	
Temperature Range	X1	-40 to +125 °C
~	-	
Packaging	R	Tape and Reel
Temperature Range	- X1 -	MHz -40 to +125 °0

Part Number Example:

S22510-48.000-X1-R

S2: 2.0 x 2.5 mm SMD Package
25: +2.5 Vdd Supply Voltage
10: ±100 PPM Temperature Stability
48.000 MHz Nominal Frequency
X1: -40 to + 125° C Automotive Temperature Range
R: Tape and Reel Packaging

Notes:

1- Standard Duty Cycle does not need to be included in Part Number description.

2- Product is shipped in Tape and Reel configuration. Each reel contains 1000 pieces.

3- Quantities less than 1000 are shipped bulk in ESD pouches.

4- Specification subject to change without notice.

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