RoHS Compliant Pb - Lead Free

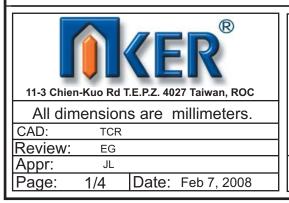
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range	2.000 to 50.000			MHz	
	±100				
Temperature Stability	±50				
Temperature Stability		±30			PPM Max
		±25			
Aging per Year		±3			
Operating Temperature Benge	Standard	-10 to +70			
Operating Temperature Range	Extended	-40 to +85		°C	
Storage Temperature Range		-55 to +125			
Supply Voltage		+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 5%	Vdd
	2.000 to 10.000 MHz	3	6	7	
Innut Current	10.100 to 20.000 MHz	5	8	7	mA Max
Input Current	20.100 to 32.000 MHz	5	8	12	
	32.100 to 50.000 MHz	10	20	20	
Output Voltage	Logic High (Voh)	90%		Vdd Min	
Output voltage	Logic Low (Vol)			Vdd Max	
Output Symmetry (Duty Cycle)	Standard	40 to 60		%	
Output Symmetry (Duty Cycle)	Tight	45 to 55		70	
Output Load		15			pF
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 $+25^{\circ}$ C, frequency stability over the operating temperature range, supply voltage, supply voltage change, output load changes, shock, vilbration, and 1st year aging at $+25^{\circ}$ C.

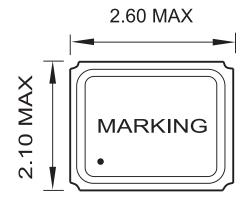


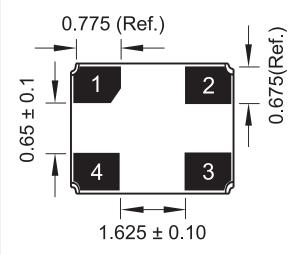
Specification Title:

Clock Oscillator Ultra Miniature 2.0 x 2.5 millimeter Surface Mount General Product Specification

Part Number: **S2 Series**

Mechanical Outline:

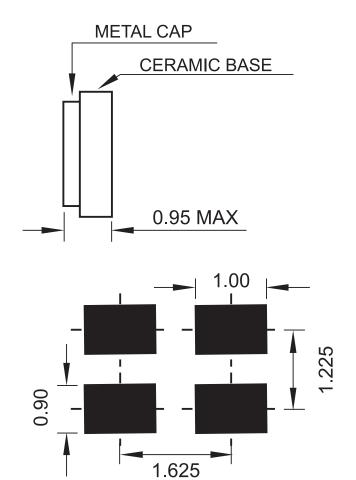




#1 : E/D #2 : GND

#4: VDC #3: OUTPUT

Bottom



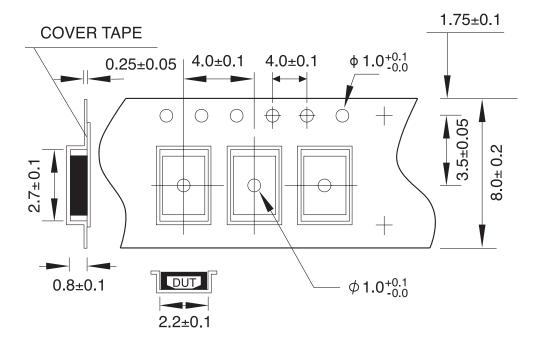
Recommended Land Pattern

Pin1	Pin 3		
INH	Output		
High or Open	Operating		
Low	High Impedance		

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

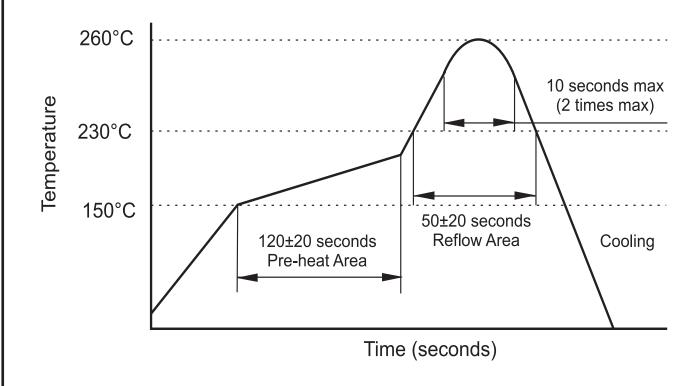
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Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



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How to build a Part Number:

Series	S	Parameter				
Package	2	2.0 x 2.5 mm				
	33	+3.3 Vdd ± 5%				
Supply Voltage	25	+2.5 Vdd ± 5%				
	18	+1.8 Vdd ± 5%				
	10	±100 PPM				
Tomporoture Stobility	05	±50 PPM				
Temperature Stability	03	±30 PPM				
	025	±25 PPM				
Duty Cycle	See Notes	40 to 60%				
Duty Cycle	Т	45 to 55%				
	-					
Frequency	2.000 to 50.000	MHz				
-						
Tomporatura Panca	See Notes	-10 to +70 °C				
Temperature Range	Х	-40 to +85 °C				
-						
Packaging	R	Tape and Reel				

Part Number Example:

S22505-48.000-X-R

S2: 2.0 x 2.5 mm SMD Package

25: +2.5 Vdd Supply Voltage

05: ±50 PPM Temperature Stability

48.000 MHz Nominal Frequency

X: -40 to + 85° C Extended Temperature Range

R: Tape and Reel Packaging

Notes:

- 1- Standard Duty Cycle and Temperature Range do 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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