RoHS Compliant Pb - Lead Free	Ltr	Revisions	Date	Appr

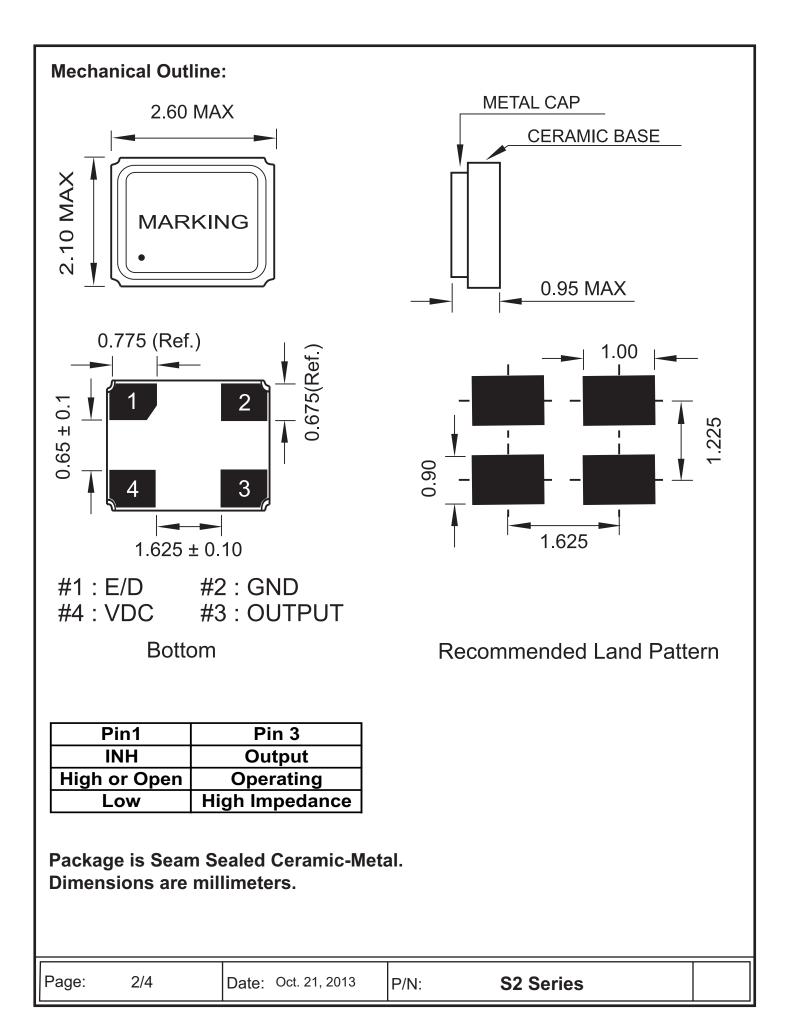
## **Electrical Specifications:**

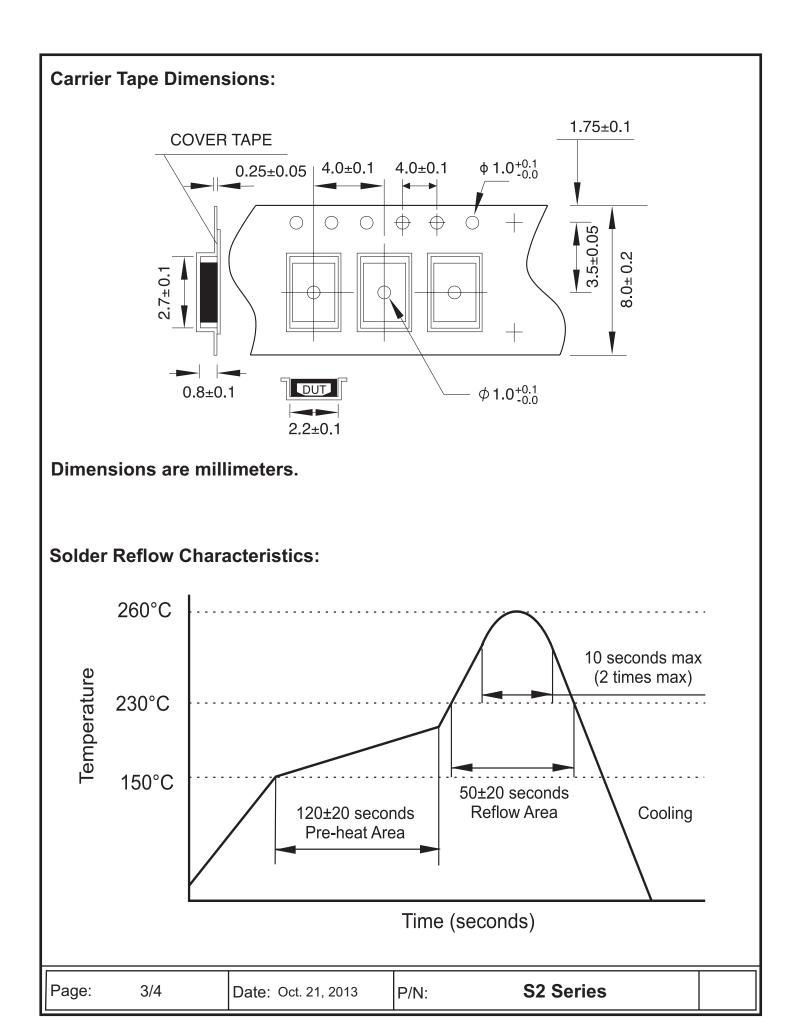
Frequency Range		2.000 to 50.000			MHz	
		±100				
Temperature Stability	±50			PPM Max		
		±25				
Aging per Year		±3				
On exeting Temperature Dense	Standard	-10 to +70		°C		
Operating Temperature Range	Extended	-40 to +85				
Storage Temperature Range		-55 to +125				
Supply Voltage		+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 10%	Vdd	
	2.000 to 10.000 MHz	3	6	7		
In must Commont	10.100 to 20.000 MHz	5	8	7	mA Max	
Input Current	20.100 to 32.000 MHz	5	8	12	ma wax	
	32.100 to 50.000 MHz	10	20	20		
Output Voltogo	Logic High (Voh)	90%		Vdd Min		
Output Voltage	Logic Low (Vol)		10%		Vdd Max	
Output Symmetry (Duty Cycle)	Standard			%		
Output Symmetry (Duty Cycle)	Tight	Tight 45 to 55			7 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°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. CAD: TCR Review: EG	Specification Title: Clock Oscillator Ultra Miniature 2.0 x 2.5 millimeter Surface Mount General Product Specification
Appr: JL   Page: 1/4 Date: Oct. 21, 2013	Part Number: S2 Series





How	to	build	а	Part	Number:
-----	----	-------	---	------	---------

S	Parameter				
2	2.0 x 2.5 mm				
33	+3.3 Vdd ± 10%				
25	+2.5 Vdd ± 5%				
18	+1.8 Vdd ± 5%				
10	±100 PPM				
05	±50 PPM				
025	±25 PPM				
See Notes	40 to 60%				
Т	45 to 55%				
-					
2.000 to 50.000	MHz				
-					
See Notes	-10 to +70 °C				
Х	-40 to +85 °C				
-					
R	Tape and Reel				
	33 25 18 10 05 025 See Notes T - 2.000 to 50.000 - See Notes X -				

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-** Specification subject to change without notice.

4/4