RoHS Compliant Pb - Lead Free

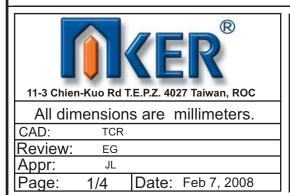
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range	2.000 to 50.000			MHz		
	±100					
	±50					
Temperature Stability		±30		DDM M		
			±25		PPM Max	
			±20			
Aging per Year			±3			
Operating Temperature Benge	Standard		10 to +70			
Operating Temperature Range	Extended	-40 to +85			°C	
Storage Temperature Range		-5	5 to +125			
Supply Voltage		1.8 ± 5%	2.5 ± 5%	3.3 ± 10%	Vdd	
	1.000 to 10.000 MHz	5	6	7		
Innut Current	10.100 to 20.000 MHz	6	8	7	mA Max	
Input Current	20.100 to 32.000 MHz	6	8	12	IIIA WAX	
	32.100 to 50.000 MHz	15	20	20		
Output Voltage	Logic High (Voh)	90% (80% at 1.8)		Vdd Min		
Output voitage	Logic Low (Vol)	10% (20% at 1.8)		Vdd Max		
Outrout Summeter	Standard	40 to 60		%		
Output Symmetry	Tight	45 to 55				
Output Level		CMOS		-		
Output Load		15			pF Max	
	1.000 to 10.000 MHz	7	5	5		
Rise and Fall Time	10.100 to 20.000 MHz	7	5	5	ns Max	
Rise and Fan Time	20.100 to 32.000 MHz	6	5	5	IIS WAX	
	32.100 to 50.000 MHz	6	5	5		
Phase Jitter (12 KHz to 20 MHz)		1		ps Max RMS		
Enable-Disable Function		Tri-State		-		
Output Disable Time		300	1	150	ns Max	
Output Enable Time		10	10 5		ms Max	
Start Up Time	5 (10 at 1.8 Vdd)		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.

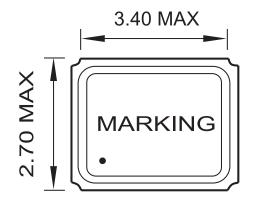


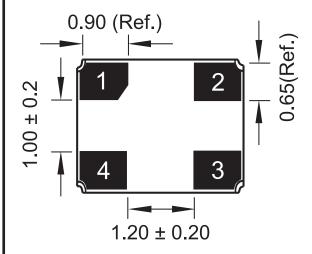
Specification Title:

Clock Oscillator Miniature - Low Profile 3.2 x 2.5 millimeter Surface Mount General Product Specification

Part Number: S3 Series

Mechanical Outline:





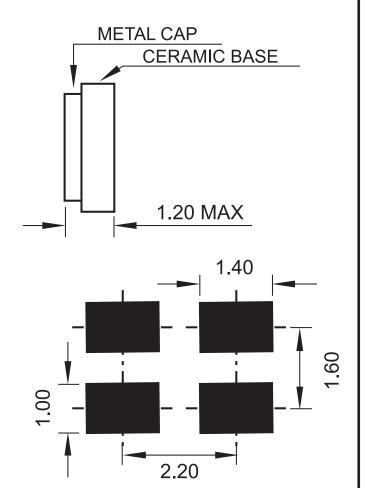
#1 : E/D #2 : GND

#4: VDC #3: OUTPUT

Bottom

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

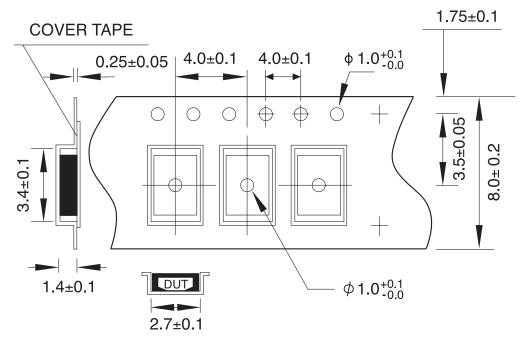
Package is Seam Sealed Ceramic-Metal. Dimensions are millimeters.



Recommended Land Pattern

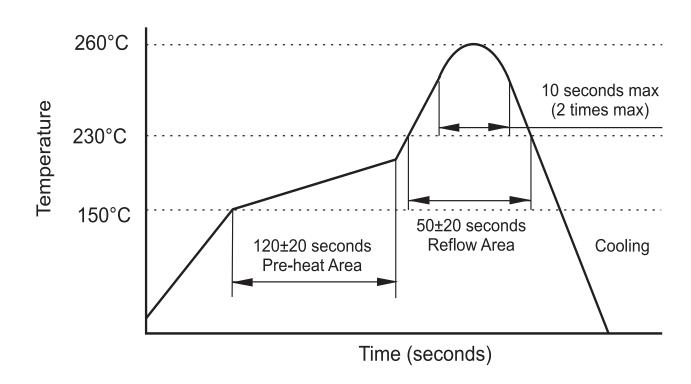
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Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



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How to build a Part Number:

Series	S	Parameter			
Package	3	2.5 x 3.2 mm			
	33	+3.3 Vdd ± 10%			
Supply Voltage	25	+2.5 Vdd ± 5%			
	18	+1.8 Vdd ± 5%			
	10	±100 PPM			
Temperature Stability	05	±50 PPM			
Temperature Stability	03	±30 PPM			
	02	±20 PPM			
Duty Cycle	See Notes	40 / 60 %			
Duty Cycle	Т	45 / 55 %			
	•				
Frequency	2.000 to 50.000	MHz			
-					
Temperature Range	See Notes	-10 to +70 °C			
remperature Range	X	-40 to +85 °C			
	-				
Packaging	R	Tape and Reel			

Part Number Example:

S31805T-50.000-X-R

S3: 2.5 x 3.2 mm SMD Package

18: +1.8 ± 5% Vdd Supply Voltage

05: ±50 PPM Temperature Stability

T: Tight Symmetry - 45 /55 %

50.000 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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