RoHS Compliant Pb - Lead Free

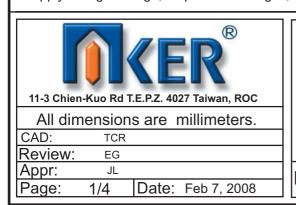
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		2.000 to 50.000			MHz	
	±100					
	±50					
Temperature Stability		±30		DDM May		
			±25		PPM Max	
			±20			
Aging per Year			±3			
Operating Temperature Range	Standard	-10 to +70				
Operating reinperature 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		
Input 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 Voltage	Logic Low (Vol)	10% (20% at 1.8)		Vdd Max		
Output Symmetry	Standard	40 to 60		0/		
Output Symmetry	Tight	45 to 55		%		
Output Level		смоѕ			-	
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	
Nise and Fall Time	20.100 to 32.000 MHz	6	5	5	IIS WIAX	
	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 Tri-State			-	
Output Disable Time		300	1	50	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.

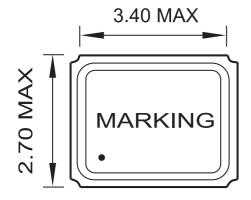


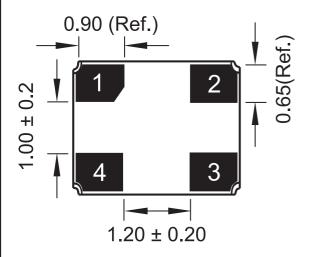
Specification Title:

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

Part Number: S3 Series

Mechanical Outline:





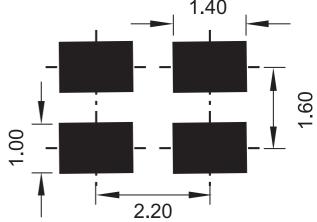
#1 : E/D #2 : GND #4 : VDC #3 : OUTPUT

Bottom

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

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

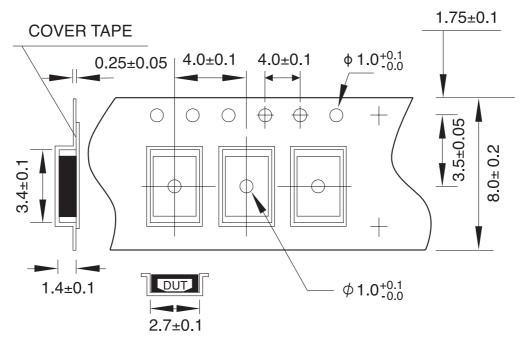
	L CAP CERAMIC BASE
Щ	1.20 MAX
—	1.20 11/10



Recommended Land Pattern

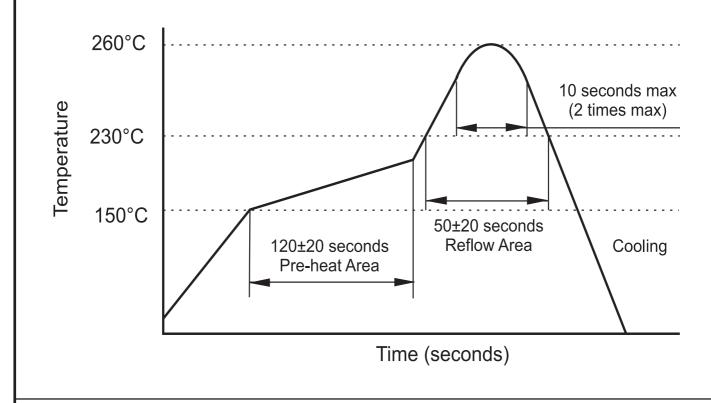
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Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



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 ivalige	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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