RoHS Compliant Pb - Lead Free

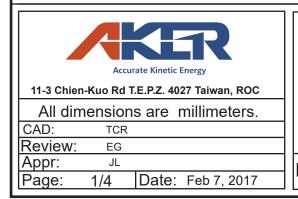
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range	1.000 to 54.000			MHz		
	±100					
		±50			PPM Max	
Temperature Stability		±30				
		±25				
		±20				
Aging per Year		±3				
Operating Temperature Range	Standard	-10 to +70				
Operating reinperature Kange	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 9.999 MHz	5	6	7	mA Max	
Input Current	10.000 to 19.999 Mhz	6	8	7		
input Current	20.000 to 31.999 Mhz	6	8	12		
	32.000 to 54.000 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		
Output Symmetry	Standard	40 to 60		%		
Output Symmetry	Tight	45 to 55				
Output Level		CMOS			-	
Output Load		15			pF Max	
	1.000 to 9.999 MHz	7	5	5		
Rise and Fall Time	10.000 to 19.999 Mhz	7	5	5	ns Max	
Nise and Fan Time	20.000 to 31.999 Mhz	6	5	5	ns wax	
	32.000 to 54.000 Mhz	6	5	5		
Phase Jitter (12 KHz to 20 MHz)	1			ps Max RMS		
Enable-Disable Function		Tri-State			-	
Output Disable Time	300	0 150		ns Max		
Output Enable Time	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.

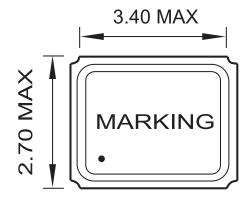


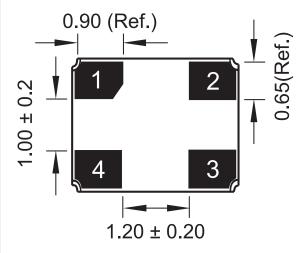
Specification Title:

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

Part Number: \$3 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		

	1.20 MAX			
-	1.40			
1.00	2.20			
I	2.20			

Recommended Land Pattern

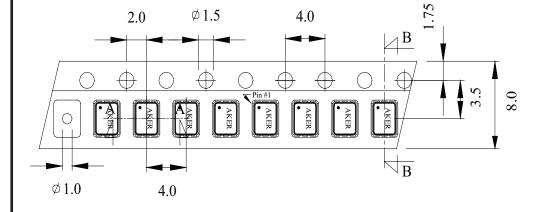
METAL CAP

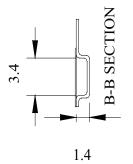
CERAMIC BASE

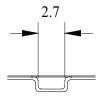
Package is Seam Sealed Ceramic-Metal. Dimensions are millimeters.

Page: 2/4 Date: Feb 7, 2017 P/N: **S3 Series**

Carrier Tape Dimensions:

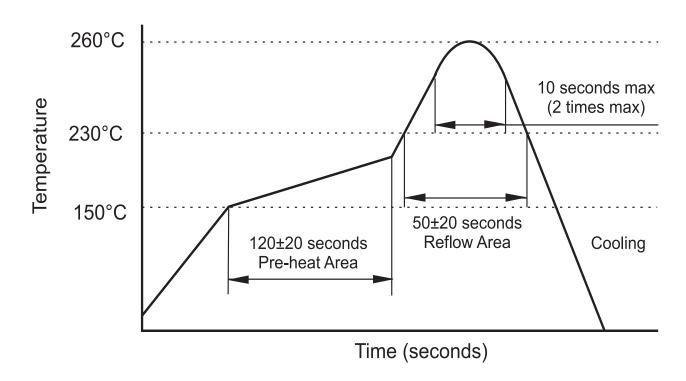






A-A SECTION

Solder Reflow Characteristics:



Page: 3/4 Date: Feb 7, 2017 P/N: **S3 Series**

How to build a Part Number:

Series	S	Parameter		
Package	3	2.5 x 3.2 mm		
<u> </u>				
	33	+3.3 Vdd ± 10%		
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 / 60 %		
Duty Cycle	Т	45 / 55 %		
	-			
Frequency	1.000 to 54.000	MHz		
	-			
Tomporoture Bange	See Notes	-10 to +70 °C		
Temperature Range	Х	-40 to +85 °C		
-				
	M	250pcs Reel		
Packaging	R	1000pcs Reel		
	R3	3000pcs Reel		

Part Number Example:

S33310-30.000-X-R

S3: 2.5 x 3.2 mm SMD Package

33: +3.3 ± 10% Vdd Supply Voltage

10: ±100 PPM Temperature Stability

30.000 MHz Nominal Frequency

X: -40 to + 85° 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.
- 3- Quantities less than 250pcs are shipped in tape.
- 4- Specification subject to change without notice.

Page:	4/4	Date: Feb 7, 2017	P/N:	S3 Series	