RoHS Compliant Pb - Lead Free

Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range	32.768				KHz		
Frequency Stability	±20 ~ ±100				ppm		
Aging per Year				±3			ppm Max.
Operating Temperature Range Standard		-10 ~ +70					
	Extended			-40 ~ +85			℃
Storage Temperature Range	-55 ~ +125						
Supply Voltage		1.8 ± 5%	2.5 ± 5%	3.3 ± 10%	1.62 ~ 3.63	5.0 ± 10%	VDD
Input Current		1	1	2	2	2	mA Max.
Output Voltage	Logic High (Voh)	90%			VDD Min.		
Output voitage	Logic Low (Vol)	10%				VDD Max.	
Output Symmotry (Duty Cyclo)	Standard		40	~ 60 (at 50% VI	DD)		%
Output Symmetry (Duty Cycle)	Tight	45 ~ 55 (at 50% VDD)				/0	
Output Load	15				pF Max.		
Rise and Fall Time	200				ns Max.		
Enable-Disable Function	Tri-State						

Temperature stability is Inclusive of all conditions:

Calibration Tolerance at $+25\,^{\circ}$ C, frequency stability over the operating temperature range, supply voltage change, output load change, shock, vilbration, and 1st year aging at $+25\,^{\circ}$ C.

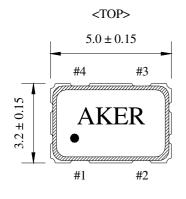


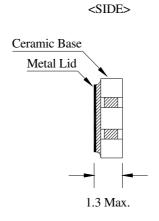
Specification Title:

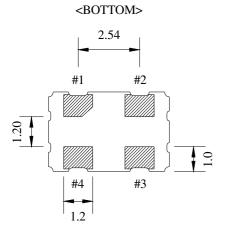
HCMOS Output Clock Oscillator Time of Day - 32.768KHz 5.0 x 3.2 millimeter Surface Mount General Product Specification

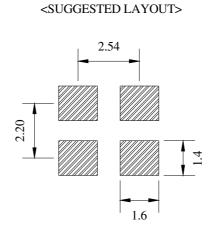
Part Number: S5-32.768 KHz Series

Mechanical Outline and Solder Pad Layout:









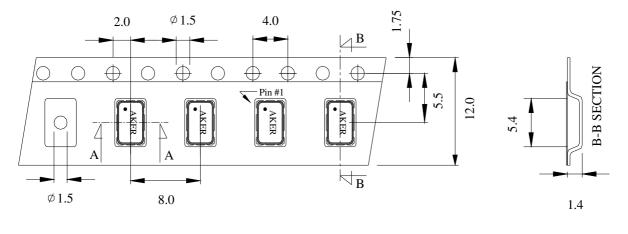
Pin Connection		
PIN No.	Connection	
#1	Enable/Disable	
#2	GND	
#3	Output	
#4	VDD	

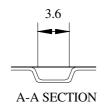
Enable/Disable Function		
PIN #1	PIN #3	
HIGH or OPEN	Operating	
LOW	High Impedance	

Package is Seam Sealed Ceramic-Metal. Terminator Pads are Ni/Au. Dimensions are millimeters.

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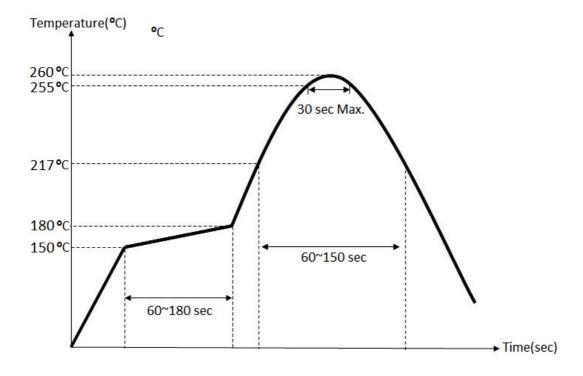
Carrier Tape Dimensions:





Dimensions are millimeters.

Solder Reflow Characteristics:



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How to build a Part Number:

Series	S	Parameter
Package	5	5.0 x 3.2 mm
	50	+5.0 VDD ± 10%
	33	+3.3 VDD ± 10%
Supply Voltage	25	+2.5 VDD ± 5%
	18	+1.8 VDD ± 5%
	М	+1.62 ~ +3.63 VDD
	10	±100 ppm
Temperature Stability	05	±50 ppm
Temperature Stability	025	±25 ppm
	020	±20 ppm
Duty Cycle	See Notes	40%~60%
Duty Cycle	Т	45%~55%
	-	
Frequency	32.768K	Hz
	-	
Temperature Range	See Notes	-10 ~ +70 °C
remperature riange	Х	-40 ~ +85 ℃
	-	
Output Load	15	pF Max
<u> </u>	-	
Packaging -	M	250pcs Reel
i ackaying	R	1000pcs Reel

Part Number Example:

S53310-32.768K-X-15-R

S5: 5.0 x 3.2 mm SMD Package

33: +3.3±10% VDD Supply Voltage

10: ±100 ppm Temperature Stability

32.768 KHz Nominal Frequency

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

15: 15 pF Max Output Load

R: Tape and Reel Packaging - 1000pcs Reel

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.
- 3- Quantities less than 250pcs are shipped in tape only.
- 4- Specification subject to change without notice.

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