



Accurate Kinetic Energy

No.11-3 Jianguo Rd., Tanzi Dist., 42760 Taiwan

All dimensions are millimeters.

CAD: TCR

Review: EG

Appr: JL

Page: 1/4 Date: April 16,2024

Specification Title:

Clock Oscillator Automotive Grade
HCSL - Complimentary Output
3.2 x 2.5 millimeter Surface Mount
General Product Specification

AEC-Q200 Qualified
IATF 16949 Certified

Part Number:

S3A Auto HCSL Series

Electrical Specifications:

Table with 6 columns and 20 rows detailing electrical specifications such as Frequency Range, Stability, Aging, Operating Temperature Range, Storage Temperature Range, Supply Voltage, Input Current, Output Voltage, Symmetry, Type, Load, Rise and Fall Time, Enable-Disable Function, Input Enable/Disable Voltage, and Phase Jitter.

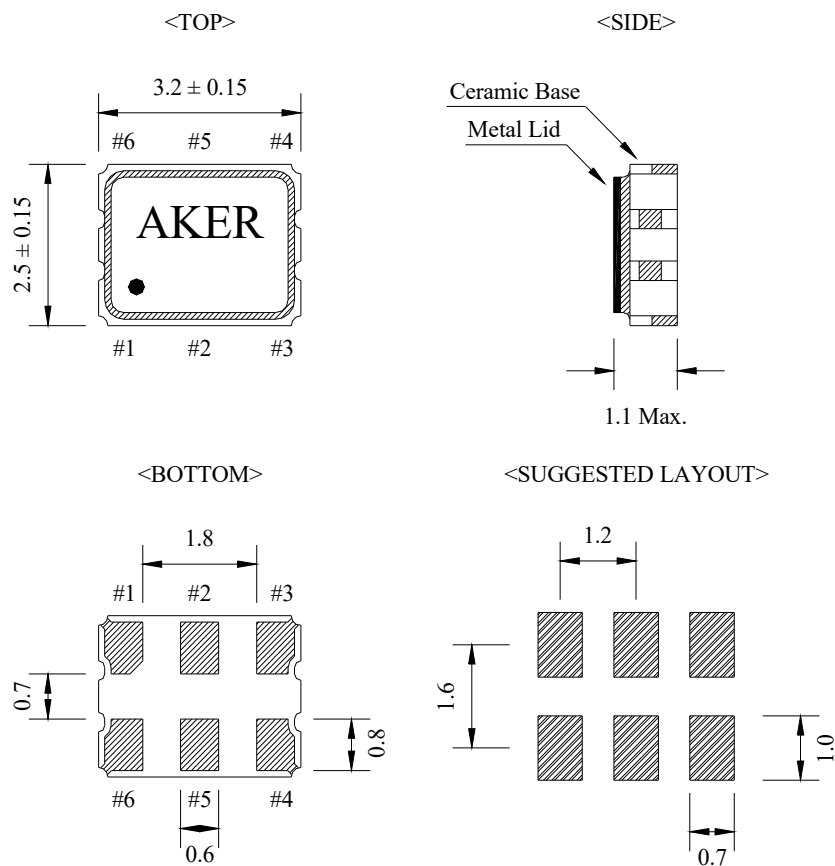
Temperature stability is Inclusive of all conditions:

Calibration Tolerance at +25°C, frequency stability over the operating temperature range, supply voltage change, output load change, shock, vibration, and 1st year aging at +25°C.

RoHS Compliant
Pb - Lead Free
AEC-Q200 Qualified
IATF 16949 Certified

Table with 4 columns: Ltr, Revisions, Date, Appr. It contains a grid for tracking document changes.

Mechanical Outline and Solder Pad Layout:



Pin Connection	
PIN No.	Connection
#1	Enable/Disable
#2	NC
#3	GND
#4	Output - Q
#5	Output - QN
#6	VDD

Enable/Disable Function	
PIN #1	PIN #4 & #5
HIGH or OPEN	Operating
LOW	High Impedance

Package is Seam Sealed Ceramic-Metal.

Terminator Pads are Ni/Au.

Dimensions are millimeters.

How to build a Part Number:

Series	S	Parameter
Package	3A	3.2 x 2.5 mm - 6 Pad
Supply Voltage	33	+3.3 VDD ± 5%
	25	+2.5 VDD ± 5%
	18	+1.8 VDD ± 5%
	M	+2.375 ~ +3.63 VDD
Temperature Stability	10	±100 ppm
	05	±50 ppm
	025	±25 ppm
Frequency	13.500~200.000	MHz
Output Load	H	HCSL
AECQ-200	A	Automotive
Temperature Range	See Notes	-20 ~ +70 °C
	X	-40 ~ +85 °C
	X1	-40 ~ +125 °C
	X2	-40 ~ +105 °C
Packaging	M	250pcs Reel
	R	1000pcs Reel

Part Number Example:

S3A3305-156.250-H-A-X-R

S3A: 3.2 x 2.5 mm SMD Package - 6 Pad

33: +3.3±5% VDD Supply Voltage

05: ±50 ppm Temperature Stability

156.250 MHz Nominal Frequency

H: HCSL Output

A: Automotive Grade

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

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.