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: August 01,2022

Specification Title:

HCMOS Output Clock Oscillator
Low Profile
7.0 x 5.0 millimeter Surface Mount
General Product Specification

Part Number:	**S7 Series**	

Electrical Specifications:

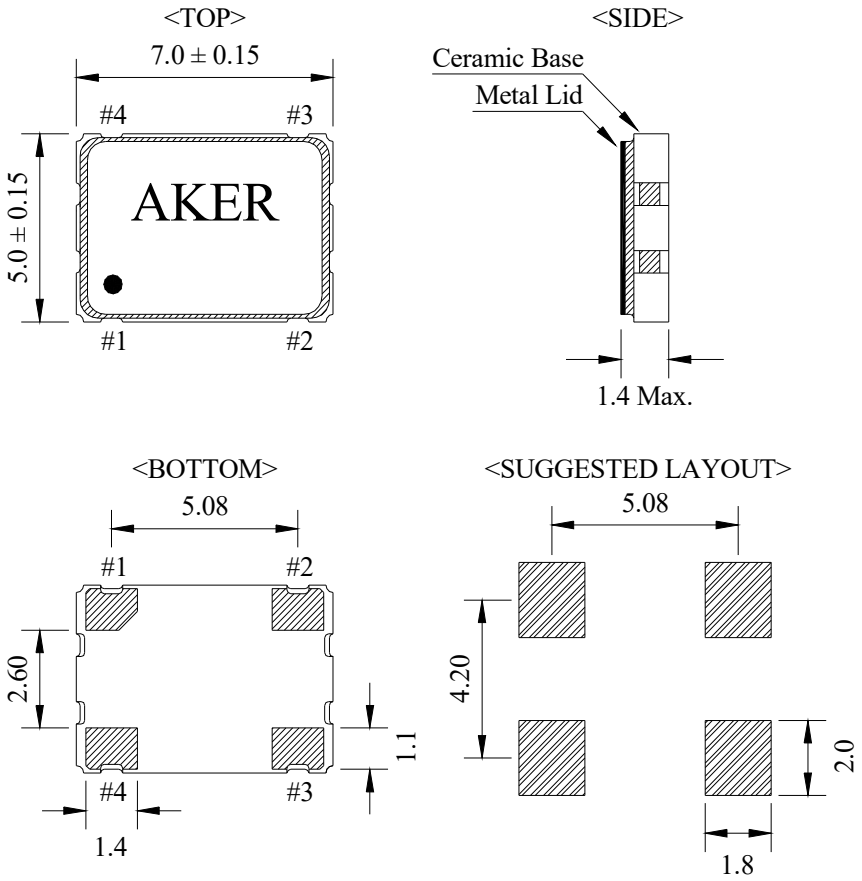
Frequency Range		0.500~40.000	0.500~75.000	0.500~156.250	0.500~40.000	0.500~40.000	MHz
Frequency Stability		±20 ~ ±100					ppm
Aging per Year		±3					ppm Max.
Operating Temperature Range	Standard	-20 ~ +70					°C
	Extended	-40 ~ +85 Or Specify (−40~+125 is available)					
Storage Temperature Range		-55 ~ +125					
Supply Voltage		1.8 ± 5%	2.5 ± 5%	3.3 ± 10%	1.62 ~ 3.63	5.0 ± 10%	VDD
Input Current	0.500 to 9.999MHz	5	6	7	7	10	mA Max.
	10.000 to 19.999MHz	6	7	7	7	15	
	20.000 to 31.999MHz	6	8	12	12	25	
	32.000 to 49.999MHz	15	20	20	20	35	
	50.000 to 79.999MHz	-	20	25	-	-	
	80.000 to 99.999MHz	-	-	30	-	-	
	100.000 to 156.250MHz	-	-	40	-	-	
Output Voltage	Logic High (Voh)	90%					VDD Min.
	Logic Low (Vol)	10%					VDD Max.
Output Symmetry (Duty Cycle)	Standard	40 ~ 60 (at 50% VDD)					%
	Tight	45 ~ 55 (at 50% VDD)					
Output Load		15					pF Max.
		30					
Rise and Fall Time	0.500 to 31.999MHz	5	5	10	10	10	ns Max.
	32.000 to 49.999MHz	5	5	10	10	6	
	50.000 to 79.999MHz	-	4	8	-	-	
	80.000 to 99.999MHz	-	-	5	-	-	
	100.000 to 156.250MHz	-	-	4	-	-	
Phase Jitter (12 KHz to 20 MHz)		1					ps Max. RMS
Enable-Disable Function		Tri-State					
Start Up Time		10					ms Max.

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, vilbration, and 1st year aging at +25°C.

RoHS Compliant
Pb - Lead Free

Ltr	Revisions	Date	Appr

Mechanical Outline and Solder Pad Layout:

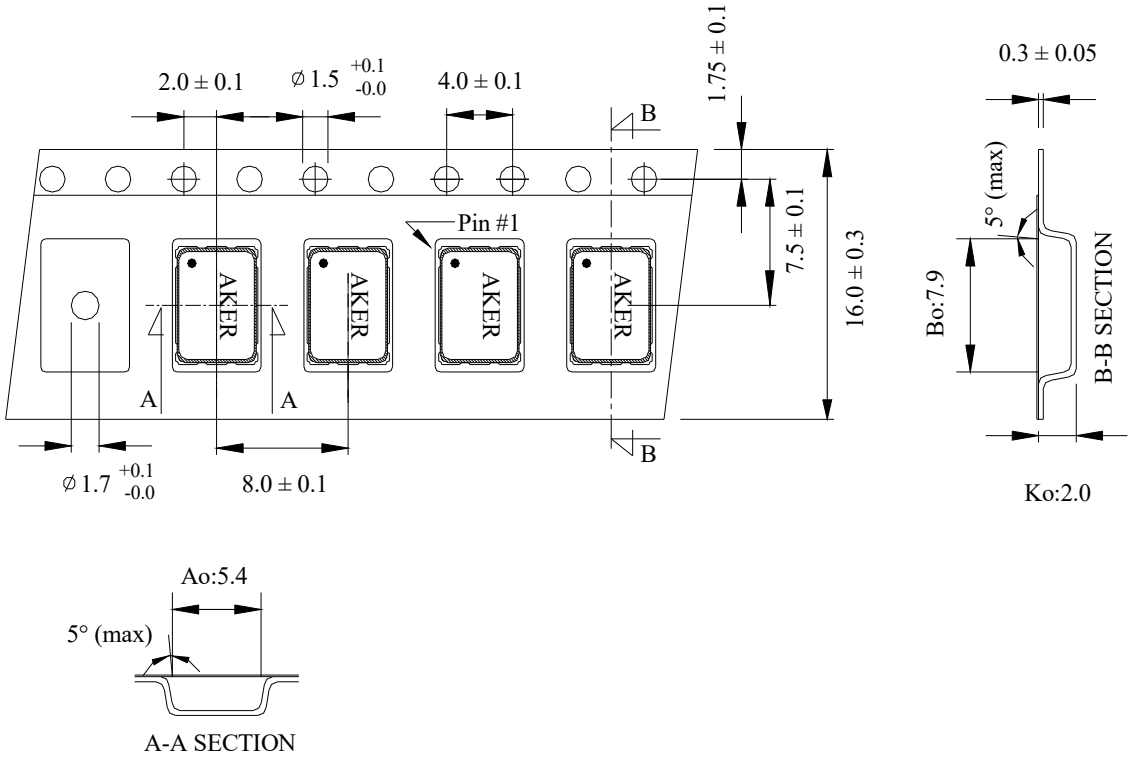


Pin Connection	
PIN No.	Connection
#1	Enable/Disable
#2	GND
#3	Output
#4	VDD

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

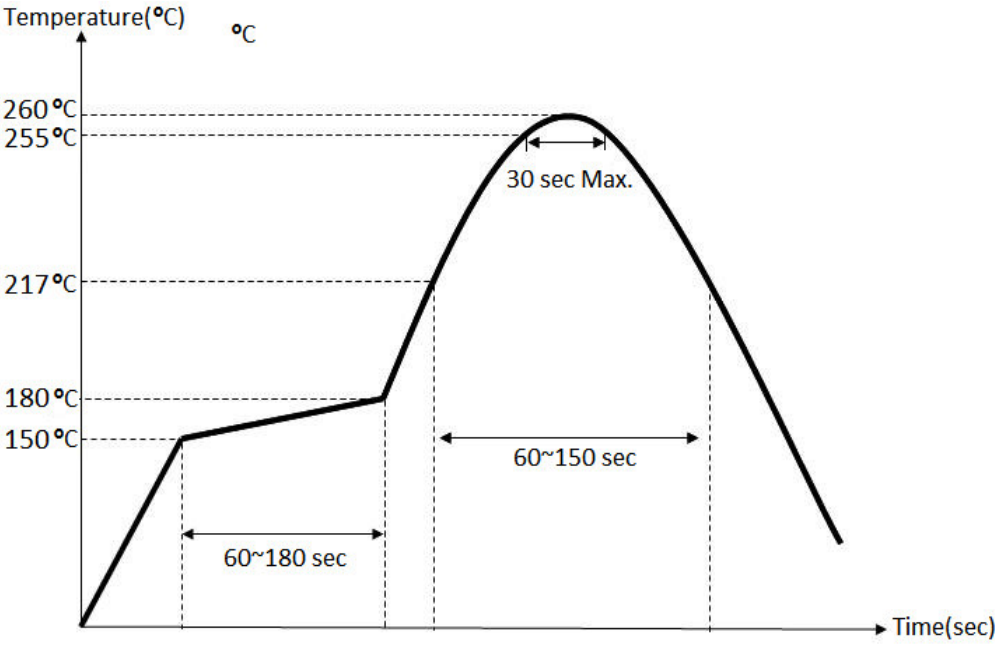
Package is Seam Sealed Ceramic-Metal.
Terminator Pads are Ni/Au.
Dimensions are millimeters.

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



How to build a Part Number:

Series	S	Parameter
Package	7	7.0 x 5.0 mm
Supply Voltage	50	+5.0 VDD ± 10%
	33	+3.3 VDD ± 10%
	25	+2.5 VDD ± 5%
	18	+1.8 VDD ± 5%
	M	+1.62 ~ +3.63 VDD
Temperature Stability	10	±100 ppm
	05	±50 ppm
	025	±25 ppm
	020	±20 ppm
Duty Cycle	See Notes	40%~60%
	T	45%~55%
	-	
Frequency	0.500~156.250	MHz
	-	
Temperature Range	See Notes	-20 ~ +70 °C
	X	-40 ~ +85 °C
	X1	-40 ~ +125 °C
	X2	-40 ~ +105 °C
	-	
Output Load	15	pF Max
	30	
	-	
Packaging	M	250pcs Reel
	R	1000pcs Reel

Part Number Example:

S73305T-50.000-X-15-R

S7: 5.0 x 7.0 mm SMD Package

33: +3.3±10% VDD Supply Voltage

05: ±50 ppm Temperature Stability

T: 45%~55% Tight Symmetry

50.000 MHz 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.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

AKER Technology:

C3E-16.000-8-50150-A-X3-R C5S-25.000-12-50100-X1 S73305-12.000-X-15 TX32-33025S-40.000-X-R
C1E-24.000-12-3030-X C3E-12.000-12-3030-X C3E-16.000-12-1010-X C5S-24.000-12-3030-X
C6S-16.000-12-3030-X C3E-12.000-12-1010-X C3E-20.000-12-3030-X C3E-24.000-12-3030-X
CAA-16.000-18-3050-X S53305-16.000-X C3E-12.000-12-3030-R C3E-32.000-12-1010-R
C5S-25.000-12-3030-X C7S-8.000-12-3030-X C3E-20.000-12-50100-X1 C5S-10.000-12-3030-X
C7S-6.000-12-3030-X CA-7.3728-18-3050-X CAA-18.432-18-3050-X CAA-3.6864-18-3050-X
S73305-14.7456-X-15 C3E-16.000-12-3030-X CA-18.432-18-3050-X CAA-4.194304-18-3050-X
C5S-12.000-12-3030-X C6S-11.0592-12-3030-X