

**RoHS Compliant
Pb - Lead Free**

Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		1.000 ~ 156.250				MHz
Frequency Stability		±20 ~ ±100				ppm
Aging per Year		±3				ppm Max.
Operating Temperature Range	Standard	-10 ~ +70				°C
	Extended	-40 ~ +85				
Storage Temperature Range		-55 ~ +125				
Supply Voltage		1.8 ± 5%	2.5 ± 5%	3.3 ± 10%	1.62 ~ 3.63	VDD
Input Current	1.000 to 9.999MHz	5	6	7	7	mA Max.
	10.000 to 19.999MHz	6	8	7	7	
	20.000 to 31.999MHz	6	8	12	12	
	32.000 to 54.000MHz	15	20	20	20	
	54.001 to 79.999MHz	20	25	25	25	
	80.000 to 156.250MHz	25	30	30	30	
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 Level		CMOS				
Output Load		15				pF Max.
Rise and Fall Time	1.000 to 9.999MHz	7	5	5	7	ns Max.
	10.000 to 19.999MHz	7	5	5	7	
	20.000 to 31.999MHz	6	5	5	6	
	32.000 to 54.000MHz	6	5	5	6	
	54.001 to 79.999MHz	7	6	5	7	
	80.000 to 156.250MHz	7	6	5	7	
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, vibration, and 1st year aging at +25°C.



Accurate Kinetic Energy

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All dimensions are millimeters.

CAD: TCR

Review: EG

Appr: JL

Page: 1/4 Date: July 1,2020

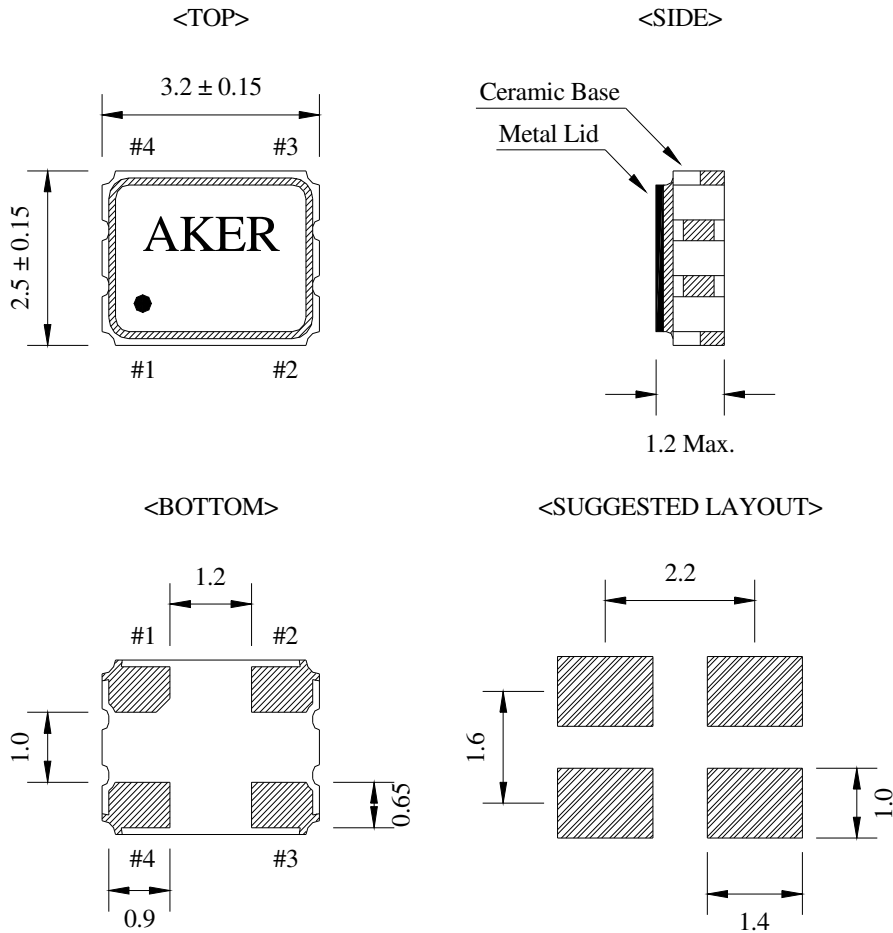
Specification Title:

**HCMOS Output Clock Oscillator
Miniature
3.2 x 2.5 millimeter Surface Mount
General Product Specification**

Part Number:

S3 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.

How to build a Part Number:

Series	S	Parameter
Package	3	3.2 x 2.5 mm
Supply Voltage	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
	03	±30 ppm
	025	±25 ppm
Duty Cycle	See Notes	40%~60%
	T	45%~55%
-		
Frequency	1.000~156.250	MHz
-		
Temperature Range	See Notes	-10 ~ +70 °C
	X	-40 ~ +85 °C
-		
Packaging	M	250pcs Reel
	R	1000pcs Reel
	R3	3000pcs Reel

Part Number Example:

S33305T-50.000-X-R

S3: 3.2 x 2.5 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

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.