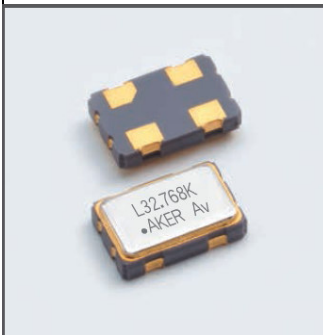


# CRYSTAL OSCILLATORS



## SMAN-531 SERIES

CERAMIC PACKAGE For 32.768KHz

### Applications

- Industry Control
- IPC
- Server
- Media

### Features

- Seam Seal
- Excellent Solderability
- Tri-State
- Low Power Consumption
- RoHS Compliant

■ Actual Size:

### Specification

#### MODEL

FREQUENCY RANGE	Hz	32.768K				
FREQUENCY STABILITY*	ppm	± 20 ~ ± 100				
OPERATING TEMPERATURE	°C	- 20 ~ + 70 Or Specify ( - 40 ~ + 125 is available)				
STORAGE TEMPERATURE	°C	- 55 ~ + 125				
POWER SUPPLY VOLTAGE	VDC	+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 10%	+1.62 ~ +3.63	+5.0 ± 10%
OUTPUT LEVEL		CMOS				
OUTPUT SYMMETRY**	%	40 ~ 60 (at 50% VDC)				
INPUT CURRENT	mA(Max.)	1			3	
RISE/FALL TIME	ns(Max.)	200				
OUTPUT LOAD		15 pF Max.				
AGING	ppm/Year	± 3				

\*Inclusive of 25°C±3°C & Operating Temperature Range.

\*\*Symmetry of 45~55% is available.

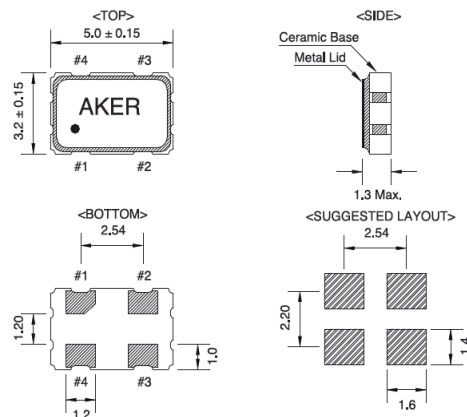
\*\*\*Specification subject to change without notice.

### Pin Connection

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

### Dimension(mm)

#### SMAN-531



### Enable/Disable Function

Pin #1	Pin #3
HIGH(OPEN)	Output
LOW	High Impedance