

## **CRYSTAL OSCILLATORS**

# 1.26.0 A.A.

### **SMAN-321 SERIES**

CERAMIC PACKAGE

**Applications** 

- DVR
- Camera
- Medical
- Industry Control
- Wireless
- Communcation
- Telecom
- loT

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

Actual Size:

#### Specification

#### MODEL

MODEL					
FREQUENCY RANGE	MHz	1.000 ~ 54.000			
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
OUTPUT LEVEL		CMOS			
OUTPUT SYMMETRY**	%	40 ~ 60 (at 50% VDC)			
INPUT CURRENT					
1.0 ~ 9.9MHz		5	6	7	7
10.0 ~ 19.9MHz	mA	6	7	7	7
20.0 ~ 31.9MHz	(Max.)	6	8	12	12
32.0 ~ 54.0MHz	1	15	20	20	20
RISE/FALL TIME					
1.0 ~ 9.9MHz		7	5	5	7
10.0 ~ 19.9MHz	ns	7	5	5	7
20.0 ~ 31.9MHz	(Max.)	6	5	5	6
32.0 ~ 54.0MHz	<u> </u>	6	5	5	6
OUTPUT LOAD		15 pF Max.			
AGING	ppm/Year	±3			

<sup>\*</sup>Inclusive of 25°C±3°C & Operating Temperature Range.

#### Pin Connection

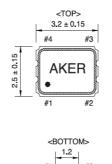
PIN No.	Connection	
#1	Enable/Disable	
#2	GND	
#3	Output	
#4	VDC	

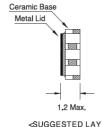
#### Enable/Disable Function

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

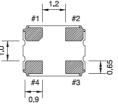
#### Dimension(mm)

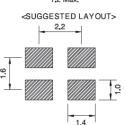
#### **SMAN-321**





<SIDE>





<sup>\*\*</sup>Symmetry of 45~55% is available.

<sup>\*\*\*</sup>Specification subject to change without notice.