

## **CRYSTAL OSCILLATORS**

# VOLTAGE CONTROL TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR



### **VTON-321 SERIES**

CERAMIC PACKAGE

**Applications** 

- Cell Phone
- Communication
- Test Equipment

**Features** 

- Seam Seal
- Low power consumption

Actual Size:

RoHS Compliant

#### Specification

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FREQUENCY RANGE	MHz		10.000 ~ 52.000	
FREQUENCY TOLERANCE	ppm	± 2.0 Max.		
OPERATING TEMPERATURE	°C	- 20 ~ + 70 Or - 40 ~ + 85		
STORAGE TEMPERATURE	°C	- 55 ~ + 125		
POWER SUPPLY VOLTAGE	VDC	+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 5%
FREQUENCY STABILITY	<u> </u>			
VS. OPERATING TEMPERATURE*	ppm	± 0.5 ~ ± 2.0	± 0.5 ~ ± 2.0	± 0.5 ~ ± 2.0
VS. POWER SUPPLY VOLTAGE	ppm (Max.)	± 0.2	± 0.2	± 0.2
VS. OUTPUT LOAD	ppm (Max.)	± 0.2	± 0.2	± 0.2
OUTPUT WAVEFORM		CLIPPED SINEWAVE		
OUTPUT LOAD		10KΩ//10pF		
OUTPUT LEVEL	Vp-p (Min.)	0.8	0.8	8.0
CONTROL VOLTAGE RANGE	V	0.3 ~ 1.5	0.4 ~ 2.4	0.4 ~ 2.4
FREQUENCY CONTROL RANGE	ppm (Min.)	± 5	± 5	± 5
INPUT CURRENT				
10.000 ~ 52.000MHz	mA (Max.)	2.5	2.5	2.5
PHASE NOISE				
@100Hz offset		-114	-114	-114
@1KHz offset	dBc/Hz (Typ.)	-131	-131	-131
@10KHz offset		-148	-148	-148
START UP TIME	ms (Max.)	2.0	2.0	2.0
AGING	ppm/Year	± 1	± 1	± 1

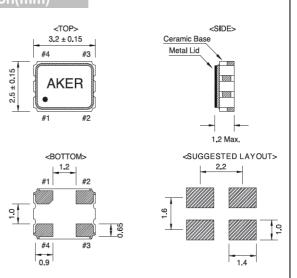
<sup>\*</sup>Refer to the middle point between the minimum and maximum frequency values.

#### Pin Connection

PIN No.	Connection
#1	VCON
#2	GND
#3	Output
#4	VDC

#### Dimension(mm)

VTON-321



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