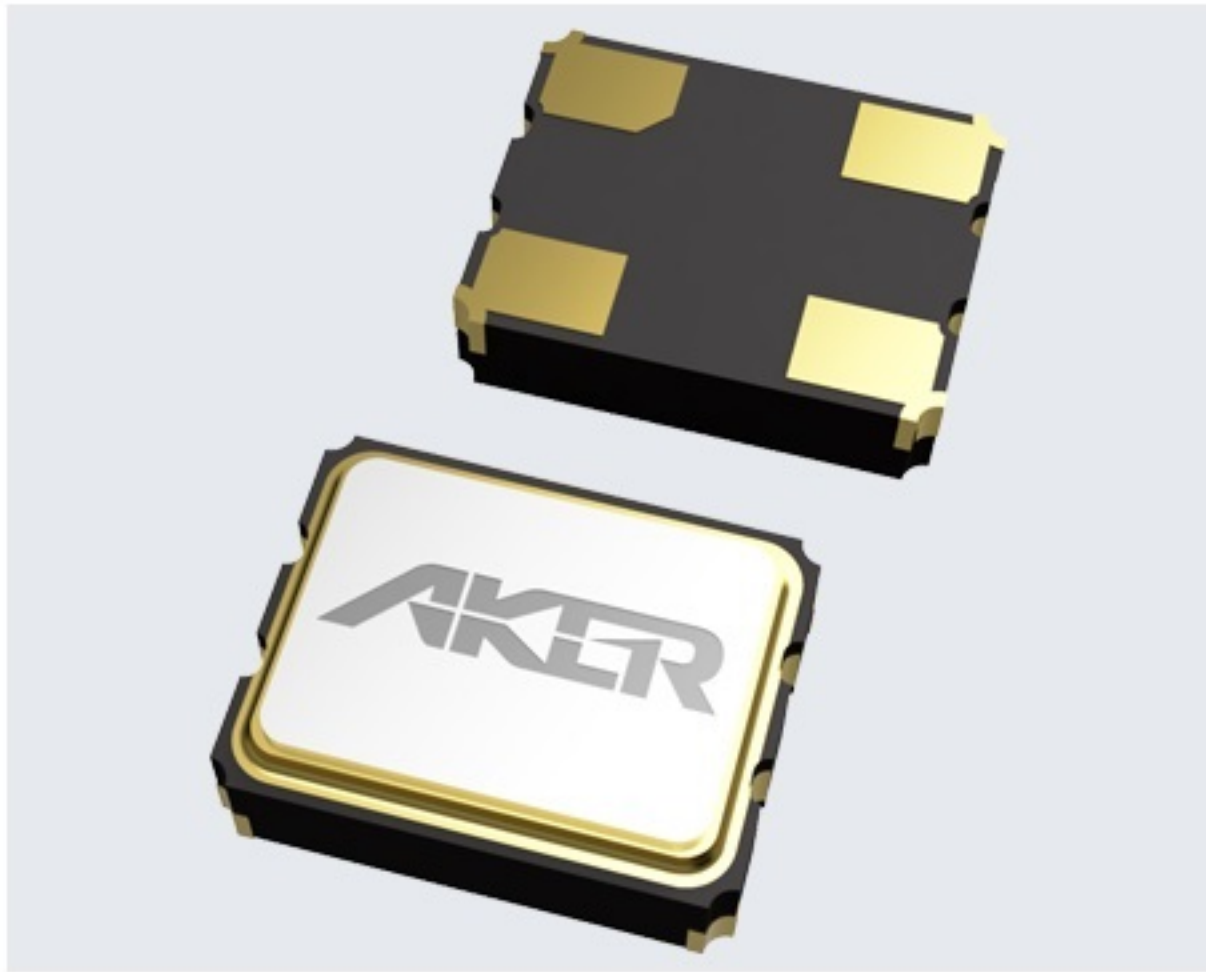


CRYSTAL OSCILLATORS

ACTUAL SIZE:

SMPN-321 SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ Industry Control
- ▶ IPC
- ▶ Home Appliance
- ▶ Server

FEATURES

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

Specification

MODEL

FREQUENCY RANGE	MHz	1.000 ~ 125.000			126.000 ~ 200.000	
FREQUENCY STABILITY*	ppm	± 25 ~ ± 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%	+2.5 ± 5%	+3.3 ± 10%
OUTPUT LEVEL		CMOS				
OUTPUT SYMMETRY	%	45 ~ 55 (at 50% VDC)				

INPUT CURRENT

1.000 ~ 30.000MHz	mA (Max.)	25
31.000 ~ 80.000MHz		30
81.000 ~ 125.000MHz		35
126.000 ~ 160.000MHz		35
161.000 ~ 200.000MHz		40

RISE / FALL TIME

1.000 ~ 30.000MHz	ns (Max.)	7	6	5		
31.000 ~ 80.000MHz		7	6	5		
81.000 ~ 125.000MHz		7	6	5		
126.000 ~ 160.000MHz					6	5
161.000 ~ 200.000MHz					6	5

OUTPUT LOAD

15 pF Max.

AGING

ppm/Year

± 3

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

**Specification subject to change without notice.

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)

SMPN-321 SERIES

