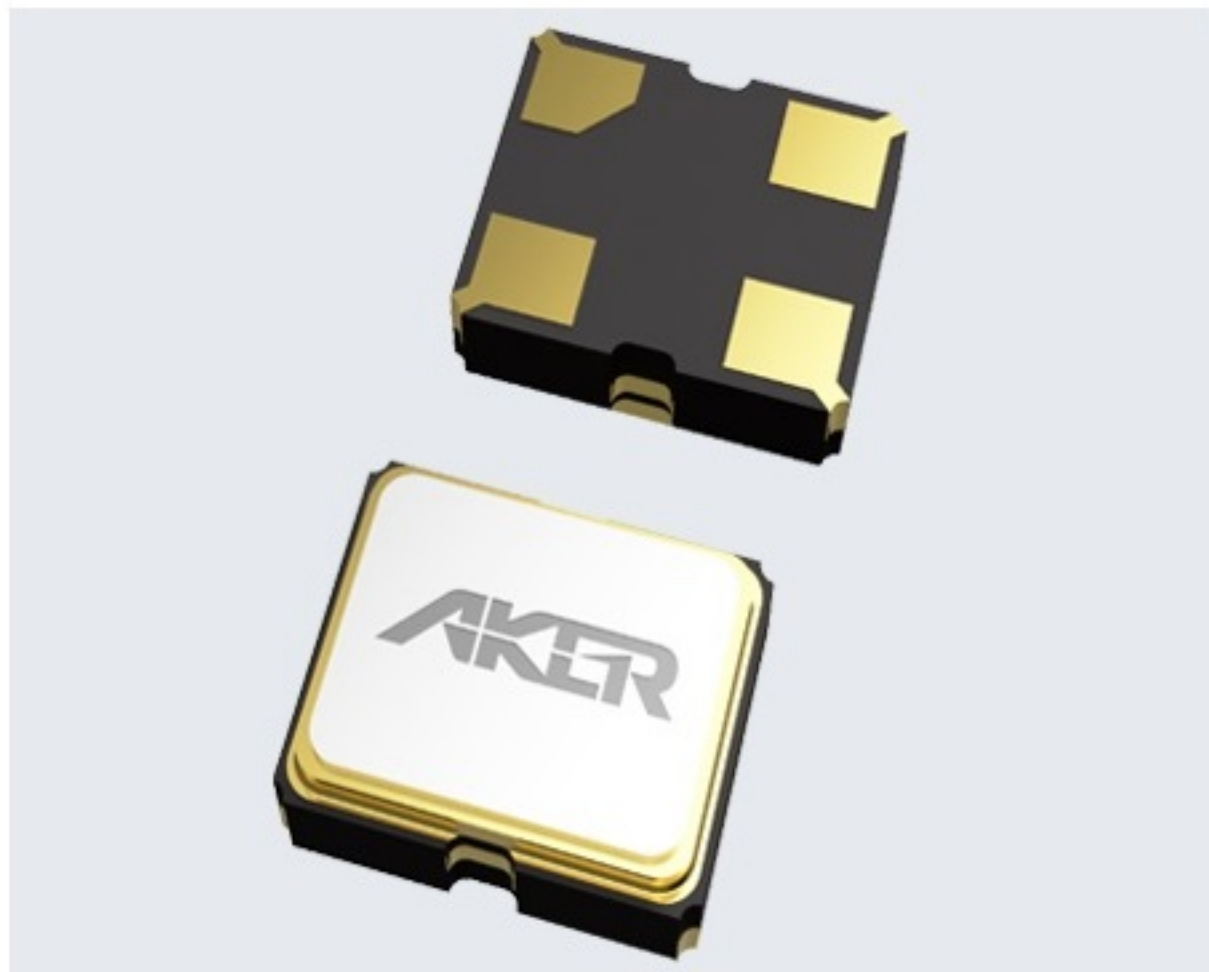


CRYSTAL OSCILLATORS

HIGH PRECISION

ACTUAL SIZE:

SMHN-221 SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ DVR
- ▶ Camera
- ▶ Medical
- ▶ Industry Control
- ▶ Wireless
- ▶ Communication
- ▶ Telecom
- ▶ IoT

FEATURES

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

Specification

MODEL

FREQUENCY RANGE	MHz	8.000 ~ 52.000		
FREQUENCY STABILITY*	ppm	± 10		
OPERATING TEMPERATURE	°C	- 20 ~ + 70 , - 40 ~ + 85 , - 40 ~ + 105		
STORAGE TEMPERATURE	°C	- 55 ~ + 125		
POWER SUPPLY VOLTAGE	VDC	+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 5%
OUTPUT LEVEL		CMOS		
OUTPUT SYMMETRY	%	45 ~ 55 (at 50% VDC)		

INPUT CURRENT

8.000 ~ 20.000MHz	mA (Max.)	5	6	7
20.001 ~ 30.000MHz		6	7	7
30.001 ~ 40.000MHz		6	7	8
40.001 ~ 52.000MHz		7	8	10

RISE / FALL TIME

8.000 ~ 20.000MHz	ns (Max.)	7	6	5
20.001 ~ 30.000MHz		7	6	5
30.001 ~ 40.000MHz		7	6	5
40.001 ~ 52.000MHz		7	6	5

OUTPUT LOAD

15 pF Max.

AGING	ppm/Year	± 2		
-------	----------	-----	--	--

*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)

SMHN-221 SERIES

