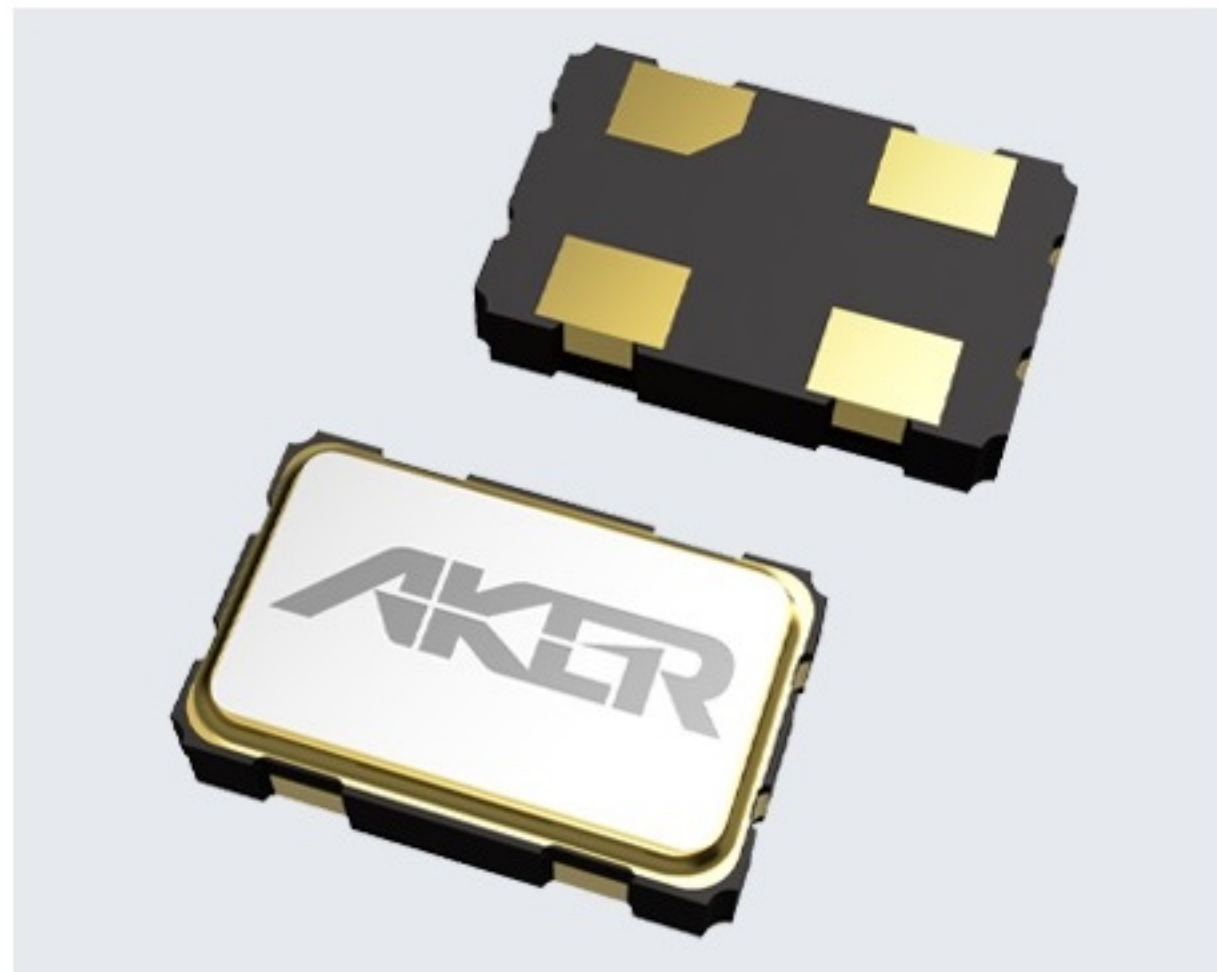


CRYSTAL OSCILLATORS

PROGRAMMABLE

ACTUAL SIZE:

SMPN-531 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 ~ 110.000	1.000 ~ 166.000	1.000 ~ 200.000
FREQUENCY STABILITY*	ppm	$\pm 25 \sim \pm 100$		
OPERATING TEMPERATURE	°C	$-20 \sim +70$, $-40 \sim +85$		
STORAGE TEMPERATURE	°C	$-55 \sim +125$		
POWER SUPPLY VOLTAGE	VDC	$+1.8 \pm 5\%$	$+2.5 \pm 5\%$	$+3.3 \pm 10\%$
OUTPUT LEVEL		CMOS		
OUTPUT SYMMETRY	%	45 ~ 55 (at 50% VDC)		

INPUT CURRENT

1.000 ~ 9.999MHz	mA (Max.)	8
10.000 ~ 19.999MHz		10
20.000 ~ 31.999MHz		12
32.000 ~ 49.999MHz		15
50.000 ~ 79.999MHz		20
80.000 ~ 99.999MHz		25
100.000 ~ 200.000MHz		30

RISE / FALL TIME

1.000 ~ 31.999MHz	ns (Max.)	6
32.000 ~ 200.000MHz		5
OUTPUT LOAD		15 pF Max.
AGING	ppm/Year	± 3

*Inclusive of $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ & 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-531 SERIES

