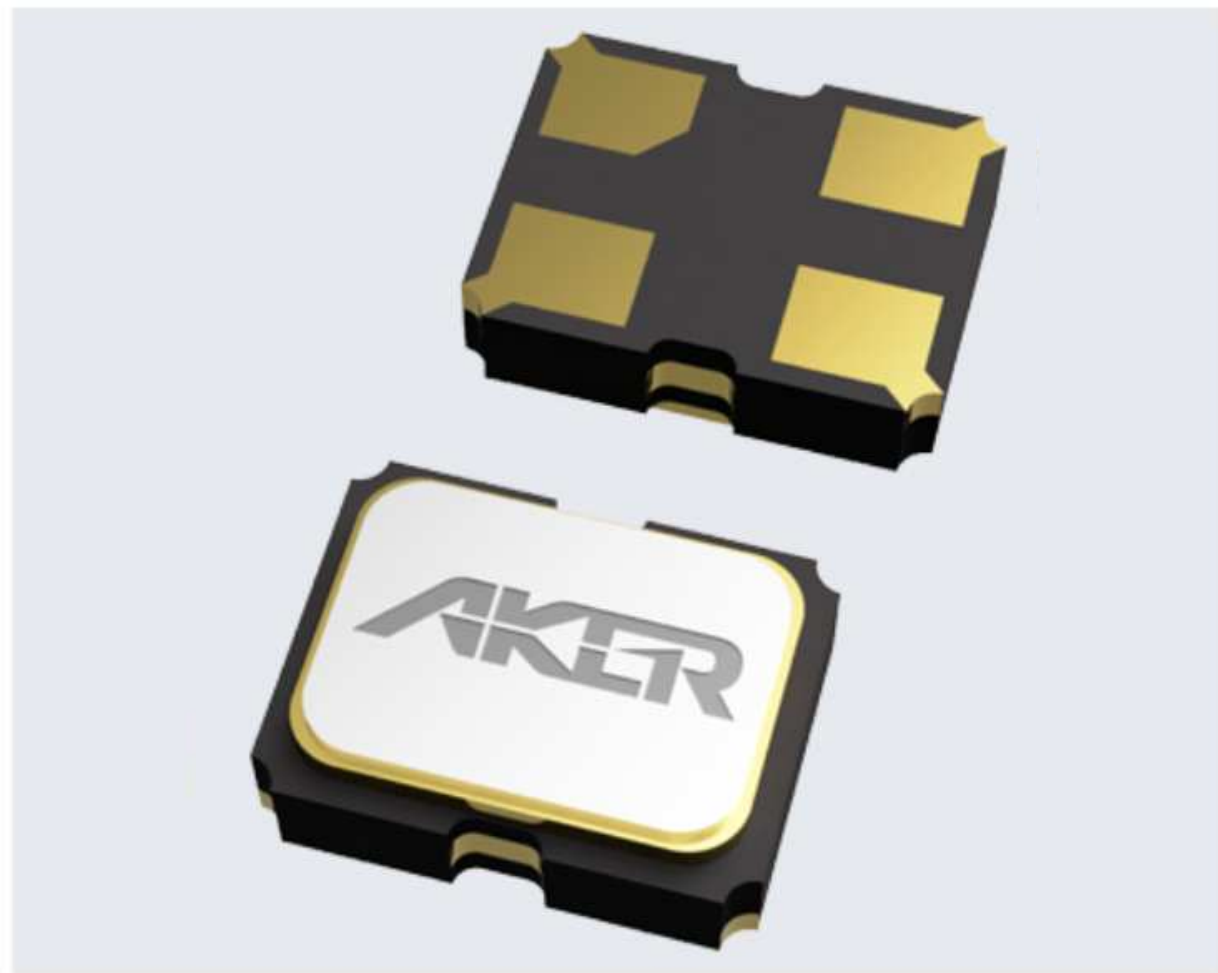


CRYSTAL OSCILLATORS

ACTUAL SIZE:

SMAN-161 SERIES CERAMIC PACKAGE



APPLICATIONS

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

FEATURES

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

Specification

MODEL

FREQUENCY RANGE	MHz	2.000 ~ 60.000			
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 ± 10%	+2.5 ± 10%	+3.3 ± 10%	+1.62 ~ +3.63
OUTPUT LEVEL		CMOS			
OUTPUT SYMMETRY	%	45 ~ 55 (at 50% VDC)			

INPUT CURRENT

2.0 ~ 9.9MHz	mA (Max.)	3	4	5	5
10.0 ~ 19.9MHz		4	5	6	6
20.0 ~ 31.9MHz		5	6	7	7
32.0 ~ 60.0MHz		6	7	8	8

RISE/FALL TIME

2.0 ~ 9.9MHz	ns (Max.)	6	5	5	6
10.0 ~ 19.9MHz		6	5	5	6
20.0 ~ 31.9MHz		5	5	5	5
32.0 ~ 60.0MHz		5	5	5	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)

SMAN-161 SERIES

