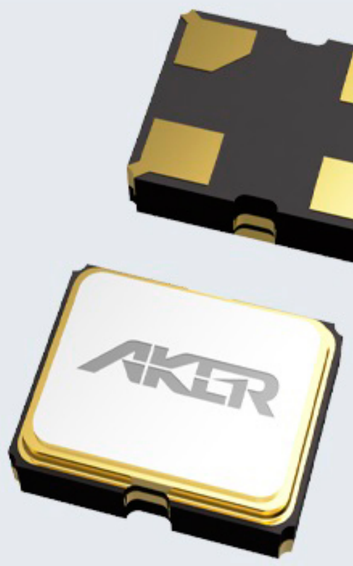
ACCURATE KINETIC ENERGY

CRYSTAL OSCILLATORS

ACTUAL SIZE: □

SMAN-048000-2BW4T01 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**	2.000~110.000	2.000~160.000	2.000~160.000	2.000~110.000	2.000~50.000
FREQUENCY STABILITY*	**ppm**	± 20 ~ ± 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	+5.0 ± 10%
OUTPUT LEVEL		CMOS				
OUTPUT SYMMETRY	**%**	45 ~ 55 (at 50% VDC)				
INPUT CURRENT						
2.0 ~ 9.9MHz	**mA (Max.)**	3	5	5	5	10
10.0 ~ 19.9MHz		5	5	5	5	12
20.0 ~ 31.9MHz		5	6	7	7	15
32.0 ~ 49.9MHz		10	12	12	12	22
50.0 ~ 110.0MHz		10	20	25	25	-
110.1 ~ 160.0MHz		-	20	30	-	-
RISE/FALL TIME						
2.0 ~ 9.9MHz	**ns (Max.)**	7	7	6	7	6
10.0 ~ 19.9MHz		7	7	6	7	6
20.0 ~ 31.9MHz		6	6	5	6	5
32.0 ~ 49.9MHz		6	6	5	6	5
50.0 ~ 110.0MHz		6	6	5	6	-
110.1 ~ 160.0MHz		-	6	6	-	-
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)

