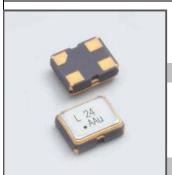


CRYSTAL OSCILLATORS Automotive Grade



SMAF-211 SERIES

CERAMIC PACKAGE

Applications

- Camera
- TPMS
- Bluetooth

Features

- Seam Seal
- RoHS Compliant
- Excellent Solderability
- IATF-16949 Certified
- Tri-State
- AEC-Q200 Qualified

Actual Size:

Low Power Consumption

Specification

MODEL

MODEL					
FREQUENCY RANGE	MHz	2.000 ~ 50.000			
FREQUENCY STABILITY*	ppm	± 25 ~ ± 100			
OPERATING TEMPERATURE	°C	- 40 ~ + 85 Or - 40 ~ + 125			
STORAGE TEMPERATURE	°C	- 55 ~ + 150			
POWER SUPPLY VOLTAGE	VDC	+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 10%	+1.62 ~ +3.63
OUTPUT LEVEL		CMOS			
OUTPUT SYMMETRY**	%	40 ~ 60 (at 50% VDC)			
INPUT CURRENT					
2.0 ~ 9.9MHz		3	4	5	5
10.0 ~ 19.9MHz	mA	4	5	6	6
20.0 ~ 31.9MHz	(Max.)	5	6	7	7
32.0 ~ 50.0MHz		6	7	8	8
RISE/FALL TIME					
2.0 ~ 9.9MHz		6	5	5	6
10.0 ~ 19.9MHz	ns	6	5	5	6
20.0 ~ 31.9MHz	(Max.)	5	5	5	5
32.0 ~ 50.0MHz		5	5	5	5
OUTPUT LOAD		15 pF Max.			
AGING	ppm/Year	± 3			

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

Pin Connection

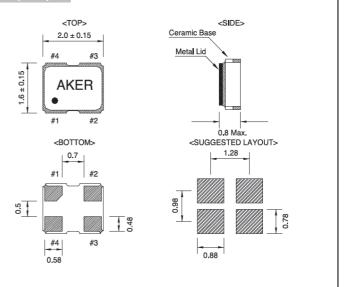
PIN No.	Connection	
#1	Enable/Disable	
#2	GND	
#3	Output	
#4	VDC	

Enable/Disable Function

Pin #1	Pin #3
HIGH(OPEN)	Output
LOW	High Impedance

Dimension(mm)

SMAF-211



^{**}Symmetry of 45~55% is available.

^{***}Specification subject to change without notice.