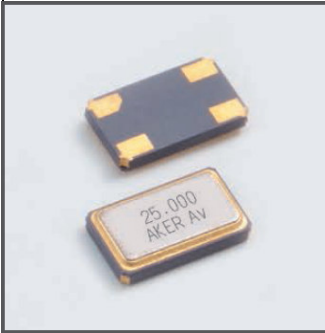


# CRYSTAL UNITS

## Automotive Grade



### CXAF-631 SERIES

CERAMIC PACKAGE

#### Applications

- Camera
- Media
- TPMS

#### Features

- Seam Seal
- Excellent Solderability
- Excellent Vibration Resistance & Shock Resistance
- High Frequency Stability
- Excellent Thermal Hysteresis
- RoHS Compliant
- IATF-16949 Certified
- AEC-Q200 Qualified

■ Actual Size:

#### Specification

##### MODEL

DIMENSION	( mm )	6.00 X 3.50	
FREQUENCY			
FREQUENCY RANGE ( Fundamental )	MHz	7.3728 ~ 52.000	
FREQUENCY RANGE ( 3rd Overtone )	MHz	40.000 ~ 133.000	
FREQUENCY TOLERANCE ( 25 °C )	ppm	± 10 ~ ± 100	
FREQUENCY STABILITY ( Ref to 25 °C )	ppm	± 20 ~ ± 100	± 50 ~ ± 100
ENVIRONMENTAL CONDITION			
OPERATING TEMPERATURE RANGE	°C	- 40 ~ + 85 Or - 40 ~ + 125	- 55 ~ + 125
STORAGE TEMPERATURE RANGE	°C	- 55 ~ + 150	
AGING / YEAR	ppm	± 3	
ELECTRICAL SPECIFICATIONS			
TEST CIRCUIT		S&A 250B With π Fixture	
LOAD CAPACITANCE	pF	SERIES, 6pF to 47pF, or Specify	
DRIVE LEVEL	uW	15, 30, 50, 100, 200 or special requirement	
EQUIVALENT SERIES RESISTANCE	Ω	See Table	
SHUNT CAPACITANCE	pF	7.0 Max.	

\*Specification subject to change without notice.

#### Equivalent Series Resistance ( Ω )

Frequency Range	Mode of Operation	ESR
7.3728 ~ 7.999	Fundamental	80Ω Max.
8.000 ~ 8.999	Fundamental	60Ω Max.
9.000 ~ 9.999	Fundamental	50Ω Max.
10.000 ~ 11.999	Fundamental	45Ω Max.
12.000 ~ 19.999	Fundamental	30Ω Max.
20.000 ~ 24.999	Fundamental	25Ω Max.
25.000 ~ 52.000	Fundamental	20Ω Max.
40.000 ~ 51.999	3rd Overtone	90Ω Max.
52.000 ~ 79.999	3rd Overtone	80Ω Max.
80.000 ~ 133.000	3rd Overtone	70Ω Max.

#### Dimension(mm)

##### CXAF-631

