

# CRYSTAL UNITS

## Automotive Grade

### CXAF-531 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 )	5.00 X 3.20	
FREQUENCY			
FREQUENCY RANGE ( Fundamental )	MHz	8.000 ~ 54.000	
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
8.000 ~ 9.999	Fundamental	60Ω Max.
10.000 ~ 11.999	Fundamental	45Ω Max.
12.000 ~ 15.999	Fundamental	35Ω Max.
16.000 ~ 19.999	Fundamental	30Ω Max.
20.000 ~ 49.999	Fundamental	25Ω Max.
50.000 ~ 54.000	Fundamental	20Ω Max.
40.000 ~ 59.999	3rd Overtone	70Ω Max.
60.000 ~ 133.000	3rd Overtone	60Ω Max.

#### Dimension(mm)

