

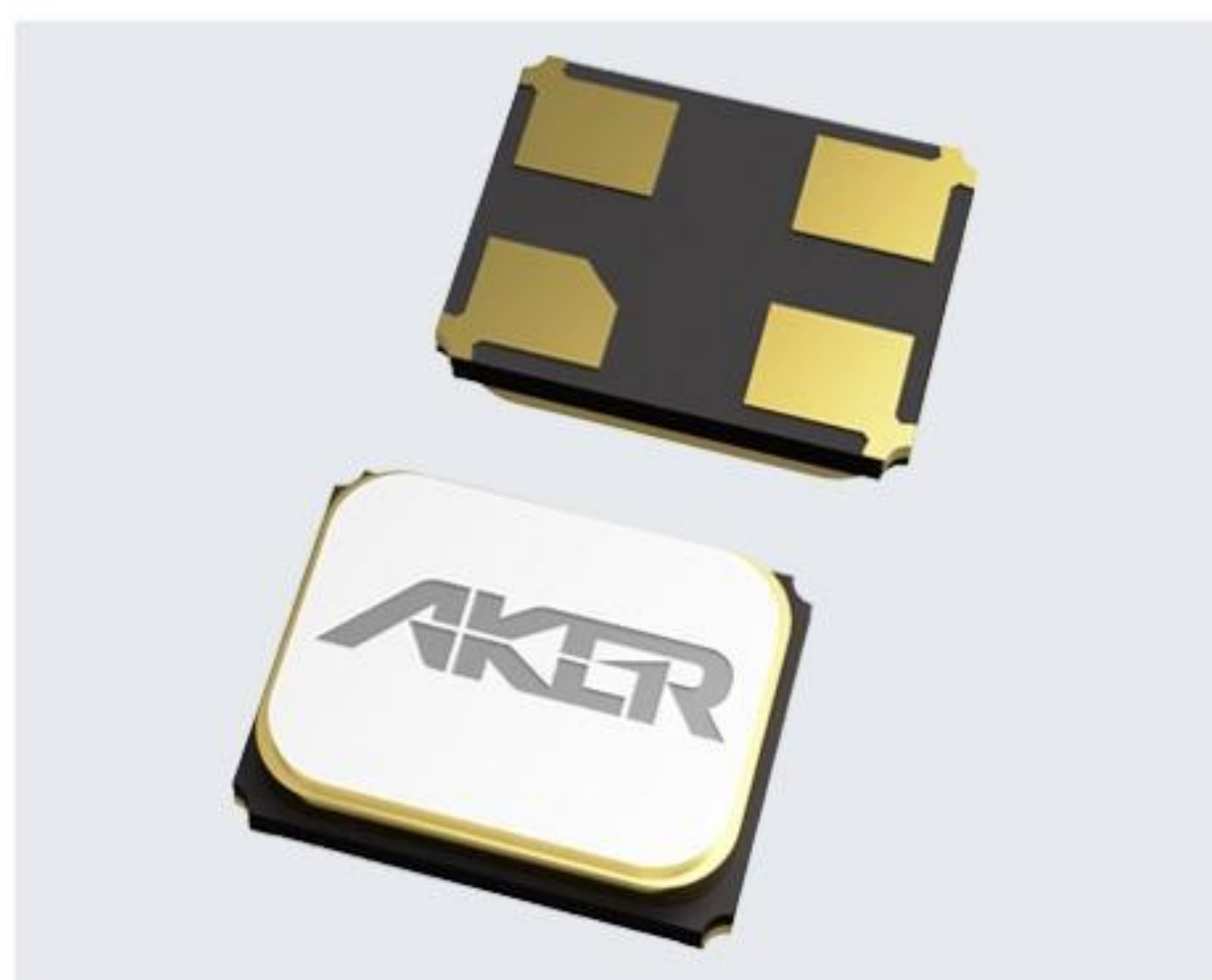
## CRYSTAL UNITS

Automotive Grade

ACTUAL SIZE: □

CXAF-032

CERAMIC PACKAGE



## APPLICATIONS

- ▶ Camera
- ▶ TPMS
- ▶ Bluetooth

## FEATURES

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

## Specification

## MODEL

|           |        |             |
|-----------|--------|-------------|
| DIMENSION | ( mm ) | 1.60 X 1.20 |
|-----------|--------|-------------|

## FREQUENCY

|                                     |     |                                |
|-------------------------------------|-----|--------------------------------|
| FREQUENCY RANGE ( Fundamental )     | MHz | 24.000 ~ 96.000                |
| 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 $\pi$ Fixture                 |
| LOAD CAPACITANCE             | pF       | SERIES, 6pF to 47pF, or Specify             |
| DRIVE LEVEL                  | uW       | 15, 30, 50, 100, 200 or special requirement |
| EQUIVALENT SERIES RESISTANCE | $\Omega$ | See Table                                   |
| SHUNT CAPACITANCE            | pF       | 2.0 Max.                                    |

\*Specification subject to change without notice.

Equivalent Series Resistance (  $\Omega$  )

| Frequency Range | Mode of Operation | ESR               |
|-----------------|-------------------|-------------------|
| 24.000 ~ 29.999 | Fundamental       | 150 $\Omega$ Max. |
| 30.000 ~ 31.999 | Fundamental       | 100 $\Omega$ Max. |
| 32.000 ~ 39.999 | Fundamental       | 80 $\Omega$ Max.  |
| 40.000 ~ 96.000 | Fundamental       | 60 $\Omega$ Max.  |

## Dimension(mm)

CXAF

