

# CRYSTAL UNITS

Automotive Grade

 ACTUAL SIZE: 

CXAF-025000-3X18X20

CERAMIC PACKAGE



## APPLICATIONS

- ▶ Camera
- ▶ TPMS
- ▶ AVM

## 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 ) | 3.20 X 2.50                                 |              |
| <b>FREQUENCY</b>                    |        |   |              |
| FREQUENCY RANGE ( Fundamental )     | MHz    | 8.000 ~ 64.000                              |              |
| FREQUENCY RANGE ( 3rd Overtone )    | MHz    | 60.000 ~ 156.250                            |              |
| FREQUENCY TOLERANCE ( 25°C )        | ppm    | ± 10 ~ ± 100                                |              |
| FREQUENCY STABILITY ( Ref to 25°C ) | ppm    | ± 20 ~ ± 100                                | ± 50 ~ ± 100 |
| <b>ENVIRONMENTAL CONDITION</b>      |        |   |              |
| OPERATING TEMPERATURE RANGE         | °C     | - 40 ~ + 85 Or - 40 ~ + 125                 | - 55 ~ + 125 |
| STORAGE TEMPERATURE RANGE           | °C     | - 55 ~ + 150                                |              |
| AGING / YEAR                        | ppm    | ± 3   |              |
| <b>ELECTRICAL SPECIFICATIONS</b>    |        |   |              |
| 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     | 3.0 Max.                                    |              |

\*Specification subject to change without notice.

## Equivalent Series Resistance ( Ω )

| Frequency Range   | Mode of Operation | ESR       |
|-------------------|-------------------|-----------|
| 8.000 ~ 9.999     | Fundamental       | 300Ω Max. |
| 10.000 ~ 11.999   | Fundamental       | 150Ω Max. |
| 12.000 ~ 15.999   | Fundamental       | 80Ω Max.  |
| 16.000 ~ 19.999   | Fundamental       | 60Ω Max.  |
| 20.000 ~ 24.999   | Fundamental       | 50Ω Max.  |
| 25.000 ~ 39.999   | Fundamental       | 40Ω Max.  |
| 40.000 ~ 64.000   | Fundamental       | 30Ω Max.  |
| 60.000 ~ 124.999  | 3rd Overtone      | 100Ω Max. |
| 125.000 ~ 156.250 | 3rd Overtone      | 80Ω Max.  |

## Dimension(mm)

