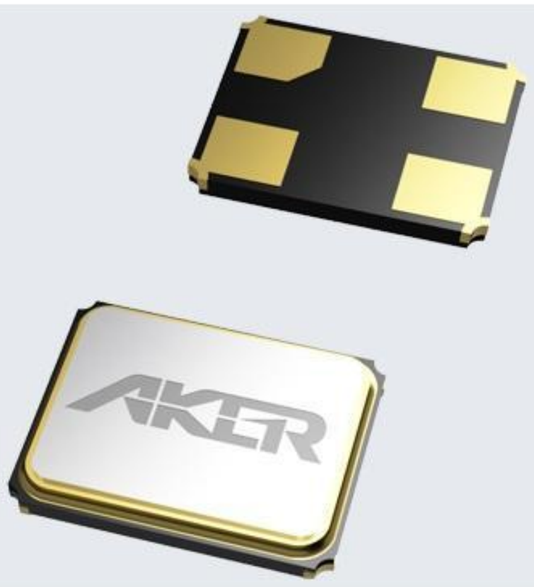
ACCURATE KINETIC ENERGY

# CRYSTAL UNITS

ACTUAL SIZE:

## CXA-013225-3XPX40 CERAMIC PACKAGE



### APPLICATIONS

- DVR
- Camera
- Medical
- Industry Control
- Wireless
- Communication
- Telecom
- IoT

### FEATURES

- Seam Seal
- Excellent Solderability
- Excellent Vibration Resistance & Shock Resistance
- High Frequency Stability
- Excellent Thermal Hysteresis
- RoHS Compliant

## Specification

| | | | |
|---|---|---|---|
| **MODEL** | | | |
| DIMENSION | **( mm )** | 3.20 X 2.50 | |
| **FREQUENCY** | | | |
| FREQUENCY RANGE ( Fundamental ) | **MHz** | 8.000 ~ 64.000 | |
| FREQUENCY RANGE ( 3rd Overtone ) | **MHz** | 60.000 ~ 156.250 | |
| FREQUENCY TOLERANCE ( 25°C ) | **ppm** | ± 10 ~ ± 50 | |
| FREQUENCY STABILITY ( Ref to 25°C ) | **ppm** | ± 10 ~ ± 100 | ± 50 ~ ± 100 |
| **ENVIRONMENTAL CONDITION** | | | |
| OPERATING TEMPERATURE RANGE | **°C** | - 20 ~ + 70 Or Specify ( - 40 ~ + 125 is available) | - 55 ~ + 125 |
| STORAGE TEMPERATURE RANGE | **°C** | - 55 ~ + 125 | |
| 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** | 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)

