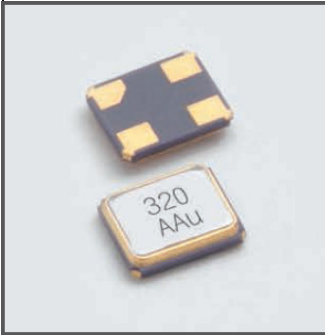


# CRYSTAL UNITS



## CXAN-221 SERIES

### 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

■ Actual Size:

### Specification

#### MODEL

DIMENSION	( mm )	2.50 X 2.00	
FREQUENCY			
FREQUENCY RANGE ( Fundamental )	MHz	12.000 ~ 66.999	
FREQUENCY RANGE ( 3rd Overtone )	MHz	67.000 ~ 133.000	
FREQUENCY TOLERANCE ( 25 °C )	ppm	± 10 ~ ± 50	
FREQUENCY STABILITY ( Ref to 25 °C )	ppm	± 15 ~ ± 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
12.000 ~ 15.999	Fundamental	150Ω Max.
16.000 ~ 19.999	Fundamental	80Ω Max.
20.000 ~ 24.999	Fundamental	60Ω Max.
25.000 ~ 29.999	Fundamental	50Ω Max.
30.000 ~ 34.999	Fundamental	45Ω Max.
35.000 ~ 66.999	Fundamental	40Ω Max.
67.000 ~ 133.000	3rd Overtone	100Ω Max.

### Dimension(mm)

