



CRYSTAL UNITS

CXA-211 SERIES (Ceramic Package)



Applications :

- Digital Cellular Phone
- TCXO
- Notebook PC
- Bluetooth
- Portable PC
- Digital Camera
- GPS
- Wireless LAN

● Features

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

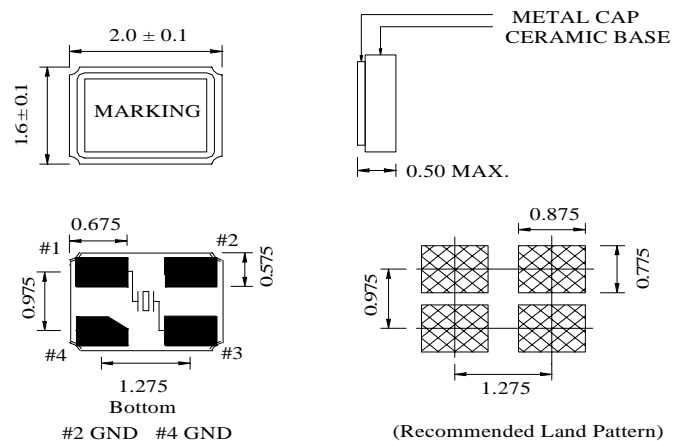
● Specification

| MODEL | | CXA-211 |
|---------------------------------|----------|---|
| DIMENSION | (mm) | 2.00 x 1.60 |
| FREQ. | | |
| FREQ. RANGE (Fundamental) | MHz | 20.000 ~ 50.000 |
| FREQ. TOLERANCE (25°C) | ppm | ± 10 ~ ± 50 |
| FREQ. STABILITY (Ref to 25°C) | ppm | ± 15 ~ ± 100 |
| ENVIRONMENTAL CONDITION | | |
| OPERATING TEMP. RANGE | °C | -40~+85 by customer requirement |
| STORAGE TEMP. RANGE | °C | - 55 ~ + 125 |
| AGING | ppm/Year | ±1 , ±2 , ± 3 |
| ELECTRICAL SPECIFICATIONS | | |
| TEST CIRCUIT | | S&A 350A With π Fixture |
| LOAD CAPACITANCE | pF | see table or special requirement |
| DRIVE LEVEL | uW | 15、30、50、100、200、500 or special requirement |
| EQUIVALENT SERIES RESISTANCE | Ω | see table |
| SHUNT CAPACITANCE | pF | 3.0 (Max) |

● Equivalent Series Resistance (Ω)

| FREQ(MHz) | MODE | CXA-211 |
|---------------|-------------|---------|
| 20.000~23.999 | Fundamental | 120 |
| 24.000~29.999 | Fundamental | 100 |
| 30.000~37.999 | Fundamental | 80 |
| 38.000~50.000 | Fundamental | 60 |

● Dimension (mm)



● Load Capacitance Instruction

| CODE | CL | CODE | CL | CODE | CL | CODE | CL | CODE | CL | CODE | CL | CODE | CL | CODE | CL |
|------|--------|------|----|------|----|------|----|------|------|------|------|------|------|------|----|
| 0 | SERIES | 4 | 20 | 8 | 10 | C | 8 | G | 13 | M | 21.5 | R | 12.5 | V | 24 |
| 1 | 16 | 5 | 30 | 9 | 14 | D | 37 | H | 9 | N | 33 | S | 11 | W | 4 |
| 2 | 22 | 6 | 18 | A | 32 | E | 25 | K | 9.5 | P | 7 | T | 6 | X | 39 |
| 3 | 15 | 7 | 12 | B | 27 | F | 35 | L | 19.5 | Q | 15.5 | U | 8.5 | Y | 26 |

● Parts Numbering Guide

Example: CXA-026000-AFHE00

| MODE | FREQUENCY | TYPE | TOLERANCE | LOAD CAPACITANCE | STABILITY | TEMPERATURE RANGE | SERIAL NUMBER |
|------|-----------|----------|--|------------------|--|--|----------------|
| CXA | IN MHz | A | B: ± 50 PPM X: ± 30 PPM C: ± 25 PPM D: ± 20 PPM E: ± 15 PPM F: ± 10 PPM | see table | B: ± 50 PPM X: ± 30 PPM C: ± 25 PPM D: ± 20 PPM E: ± 15 PPM* | 0: -10 °C TO +70 °C 2: -20 °C TO +70 °C 3: -20 °C TO +80 °C 4: -40 °C TO +85 °C | 0 ~ 9 A ~ Z |