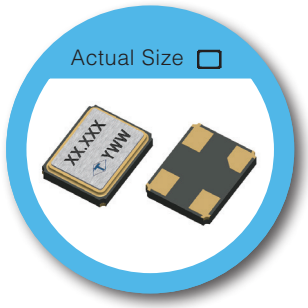
# XX Type
# 3.2 x 2.5 mm SMD Crystal




RoHS Compliant

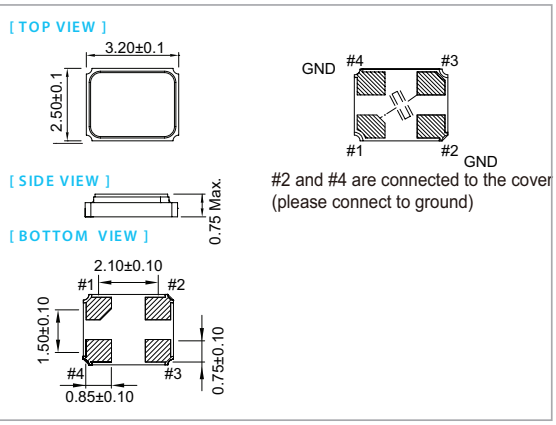
## FEATURE

- Conforms to AEC-Q200
- Typical 3.2 x 2.5 x 0.75 mm ultra thin ceramic package.
- 8mm width Tape & Reel package for automatic assembly.
- Tight tolerance 10 ppm available.

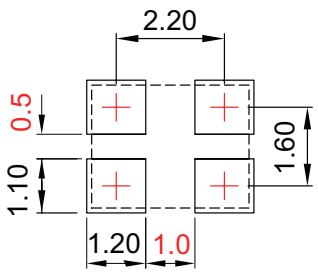
## TYPICAL APPLICATION

- Automotive
- Bluetooth, Mobile Phone, GPS
- Wireless LAN, 4G/LTE
- Hard Disk

## DIMENSION (mm)




## SOLDER PAD LAYOUT (mm)




## ELECTRICAL SPECIFICATION

| Parameter | Min. | Typical | Max. | Unit |
|---|---|---|---|---|
| Storage Temp. Range | -40 | - | 125 | °C |
| Standard Frequency | | 26,40 | | MHz |
| Level of Drive | - | 10 | 200 | μ W |
| Shunt Capacitance (C0) | - | - | 3.0 | pF |
| Insulation Resistance | 500MΩ @ DC100V | - | - | |
| Aging | | ±1.0 to ±3.0 | | ppm/year |

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

## EQUIVALENT SERIES RESISTANCE (E. S. R.)

| Frequency Range | MODE | E.S.R |
|---|---|---|
| 8 MHz ≦ Fo ≦ 10 MHz | A1 | <200Ω |
| 10 MHz ≦ Fo ≦ 13 MHz | A1 | <100Ω |
| 13 MHz < Fo ≦ 19.5 MHz | A1 | <60Ω |
| 19.5 MHz < Fo ≦ 27 MHz | A1 | <40Ω |
| 27 MHz < Fo ≦ 100 MHz | A1 | <40Ω |

## FREQ. STABILITY vs. TEMP. RANGE

| ppm / Temp.(°C) | ±5 | ±10 | ±15 | ±20 | ±30 | ±50 |
|---|---|---|---|---|---|---|
| -10 ~ +60 | △ | ○ | ○ | ○ | ○ | ○ |
| -20 ~ +70 | × | △ | ○ | ○ | ○ | ○ |
| -40 ~ +85 | × | × | △ | ○ | ○ | ○ |
| -40 ~ +105 | × | × | △ | ○ | ○ | ○ |
| -40 ~ +125 | × | × | × | × | △ | ○ |

* ○: Available △:Conditional X: Not available

**Note: not all combination of options are available. Other specifications may be available upon request.**