

## X3 Type

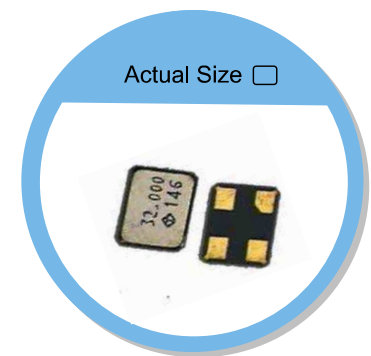
### 1.6 x 1.2 mm SMD Crystal

#### FEATURE

- Typical 1.6 x 1.2 x 0.35 mm ultra thin ceramic package.
- 8 mm width Tape & Reel package for automatic assembly.
- Tight tolerance 10 ppm available.

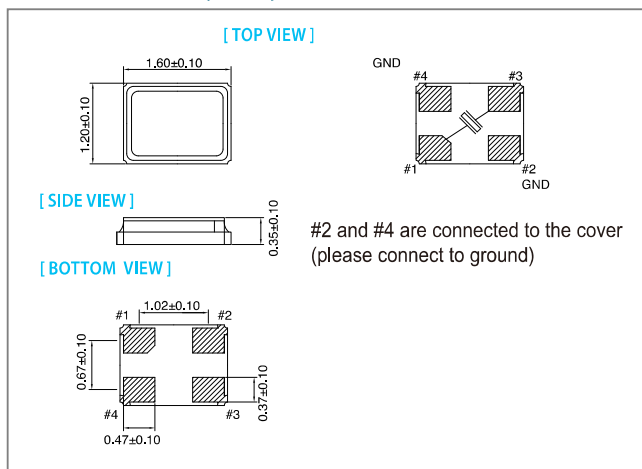
#### TYPICAL APPLICATION

- Bluetooth, Mobile phone, Wireless LAN.
- Office Automation
- Audio & Video

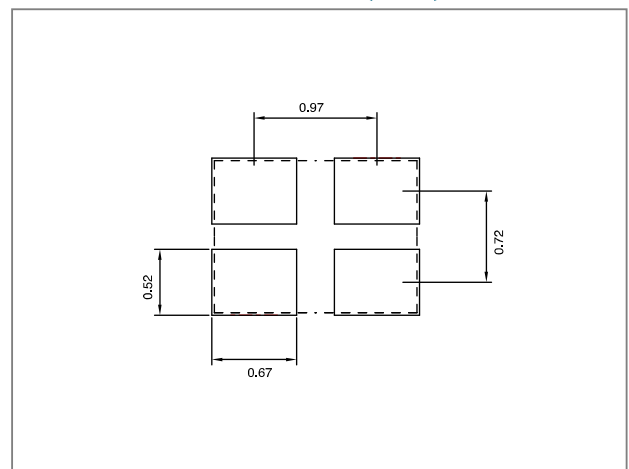


RoHS Compliant

#### 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  | 500M Ω @ 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(ESR)

| Frequency Range      | MODE | E.S.R. |
|----------------------|------|--------|
| 26 MHz ≤ Fo ≤ 40 MHz | A1   | <150 Ω |
| 40 MHz < Fo ≤ 54 MHz | A1   | <100 Ω |

#### FREQ. STABILITY vs. TEMP. RANGE

| Temp.(°C) \ ppm | ±5 | ±10 | ±15 |
|-----------------|----|-----|-----|
| -10 ~ +60       | △  | ○   | ○   |
| -20 ~ +70       | ×  | △   | ○   |
| -40 ~ +85       | ×  | ×   | △   |

\* O: Available    △:Conditional    X: Not available

#### FREQ. STABILITY vs. WIDE TEMP. RANGE

| Temp.(°C) \ ppm | ±15 | ±20 | ±30 | ±50 |
|-----------------|-----|-----|-----|-----|
| -40 ~ +105      | △   | ○   | ○   | ○   |
| -40 ~ +125      | ×   | ×   | △   | ○   |

\* O: Available    △:Conditional    X: Not available

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

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