



### Features

- High precision and high frequency stability;
- Extremely good for reducing EMI effect;
- The best choice of Bluetooth, wireless communication set, DSC, PDA, and mobile phone;
- RoHS Compliant / Pb Free

### Crystals specifications

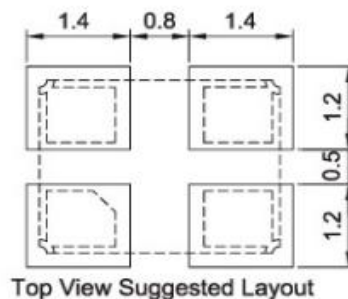
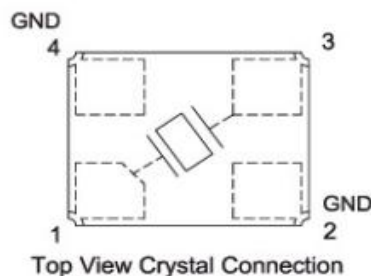
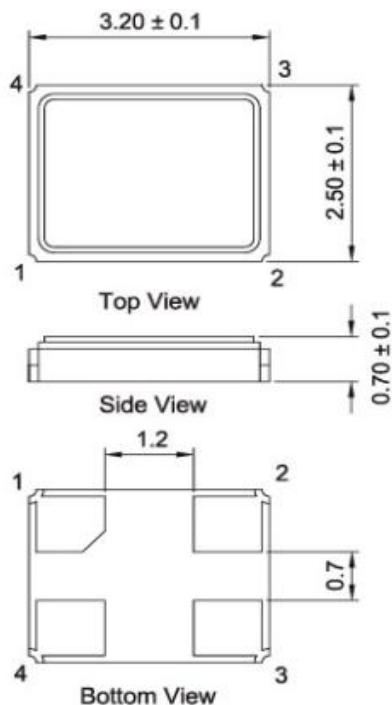
| ITEMS (项目)   | PARAMETER (规格说明)        |                        |
|--|-------------------------|------------------------|
|  | 10-114MHz               | 100 ~ 400MHz           |
| Frequency Range                                      | 10-114MHz               | 100 ~ 400MHz           |
| Frequency Tolerance (at 25 °C)                       | +/- 30ppm , or Specify  | +/- 30ppm , or Specify |
| Frequency Stability Over Operating Temperature Range | +/- 30ppm , or Specify  | +/- 30ppm , or Specify |
| Operating Temperature Range                          | -10~70 C, or Specify    | -10~70 C, or Specify   |
| Shunt Capacitance (C0)                               | 3pF Max.                | 3pF Max.               |
| Drive Level  | 1-200uW (100uW typical) | 400uW max              |
| Load Capacitance                                     | 10pF, or specify        | 10pF, or specify       |
| Aging (at 25 °C)                                     | +/- 3ppm/year Max       | +/- 3ppm/year Max      |
| Storage Temperature Range                            | -40 ~ +85 °C            | -40 ~ +85 °C           |
| Packing Unit   | 3,000pcs/Reel           |                        |

### Equivalent Series Resistance(ESR)

#### Fundamental

|            |           |
|------------|-----------|
| 10-16MHZ   | 100 Ω Max |
| 16-20MHZ   | 80Ω Max   |
| 20-64MHZ   | 60 Ω Max  |
| 100-400MHZ | 30 Ω Max  |

### Dimensions



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[BTL-20-513](#) [TSX-3225 24.0000MF15X-AC](#) [TSX-3225 16.0000MF18X-AC](#) [BTJ120E02C](#) [BTL-12-513](#) [7A-10.000MBBK-T](#) [7A-](#)  
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