

# SMD kHz Crystals

## 2.0 x 1.2 x 0.6 (max) mm 9H T11 Series



### Features

- Ceramic surface mount package.
- Applications in mobile phone, Notebook and DSC.
- RoHS Compliant / Pb Free.

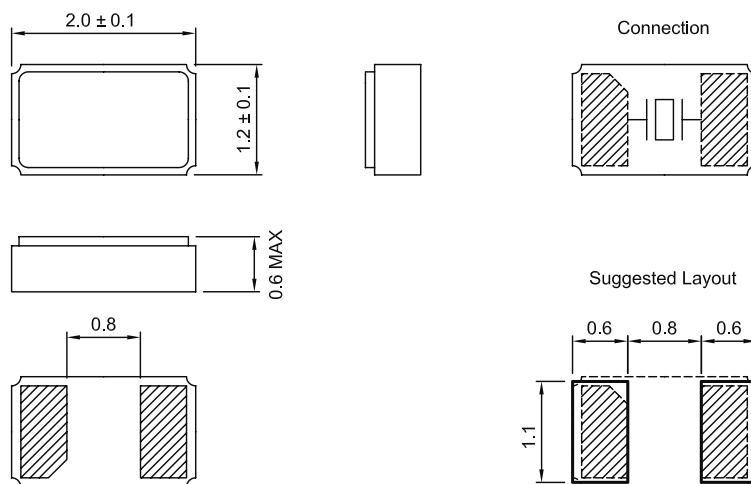
### Electrical Specifications

| Item / Type                   | 9H T11   |
|-------------------------------|--|
| Normal Frequency              | 32.768 KHz   |
| Frequency Tolerance(at 25 °C) | ± 20 ppm , or specify                                  |
| Operation Temperature Range   | - 40 ~ + 85 °C   |
| Shunt Capacitance (C0)        | 1.3pF typical  |
| Motional Capacitance (C1)     | 6.4fF typical  |
| Insulation Resistance (IR)    | 500 MΩ Min.  |
| Drive Level (DL)              | 0.5 μW Max.  |
| Load Capacitance( CL)         | 12.5 pF , other spec.                                  |
| Turnover Temperature (Ti)     | 25 °C ± 5 °C   |
| Parabolic Coefficient (B)     | ( - 0.03 ± 0.01 ) * 10 <sup>-6</sup> / °C <sup>2</sup> |
| Aging (at 25 °C)              | ± 3 ppm at first year                                  |
| Storage Temperature Range     | - 55 ~ +125 °C   |

### Equivalent Series Resistance(ESR)

T11  
 90 KΩ Max

### Dimensions



Units: mm

Remark : Specification subject to change without prior notice. Please confirm with our sales. <http://www.txccorp.com>