

#### Frequency Range:

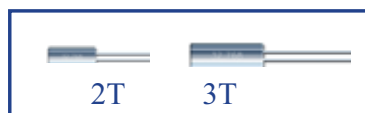
20.00kHz to 75.00kHz

#### Features:

- High Reliability & Low Cost Unit
- Tight Stability & Extended Temperature Available
- RoHS Compliant



Actual Size



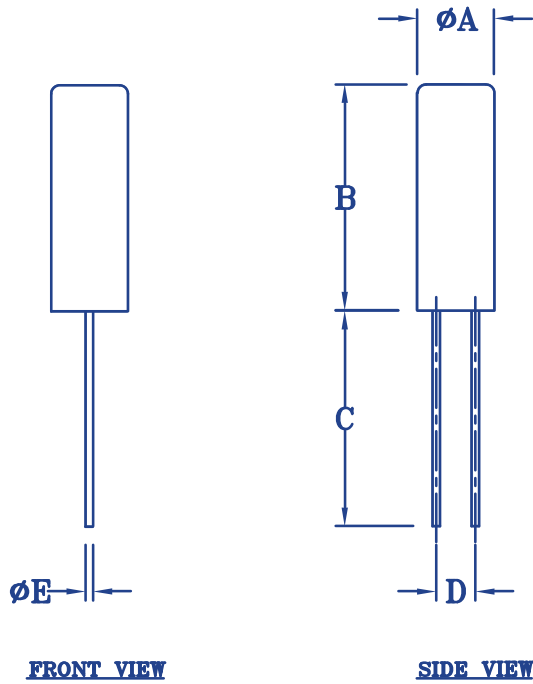
### ■ Standard Specifications

Item	2T(2×6)		3T(3×8)	
	32.768kHz	20.0 to 75.0kHz	32.768kHz	20.0 to 75.0kHz
Equivalent Series Resistance (ESR)	40kΩ Max	50kΩ Max	40kΩ Max	50KΩ Max
Frequency Tolerance @ 25 °C	±20ppm (tighter tolerance also available)			
Temperature Coefficient	-0.034±0.006ppm /°C <sup>2</sup>			
Operating Temperature Range	-20 °C to +70 °C (other operating range also available)			
Operable Temperature Range	-40 °C to +85 °C			
Load Capacitance	6.0pF , 8.0pF , 12.5pF standard			
Drive Level	0.2μW Max			
Shunt Capacitance	2.5pF Max			
Aging	±5ppm/year			

#### Note:

1. Manufacturer reserves the right to change the specification and content of this product for improvement without notification.
2. Custom specification is welcome. Please contact our sales representative for further details.
3. If the crystal is intended for applications which have direct impact on human life and properties, and require a high degree of reliability and safety concerns, customers must provide full information such as but not limit to the application, electrical and reliability specification at the inquiry beginning stage.
4. Customers have to agree to the "Guideline for handling crystal units" and "Standard Terms and Condition of Sales" which is printed this catalog before placing orders to our company or our distributors. There are also unpredictable factors such as applied condition, oscillation margin and etc and customers must check them beforehand. In case of queries, please do not fail to send inquiry to our company before ordering.

■ Dimensions (mm) and Solder Pad Layout (mm)



**DIMENSION**

ITEMS	2T	3T
A	2.0±0.1	3.0±0.1
B	6.2 MAX	8.2 MAX
C	5.0 Min	9.0 Min
D	0.7±0.1	0.8±0.1
E	0.25±0.05	0.33±0.05

QUARTZ  
CRYSTALS