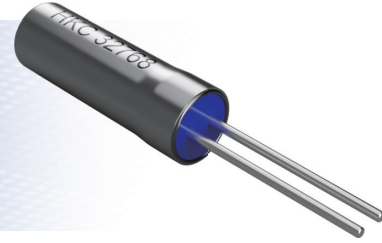




## Thru Hole Type Crystals 3x8 / 3x9 Series (AT Cut)

Model 3T / 4T Thru Hole Type



**Frequency Range :** 3T: 4.20MHz to 32.00MHz  
4T: 4.00MHz to 4.194304MHz

### Features :

- High reliability & low cost unit
- RoHS compliant

QUARTZ  
CRYSTALS

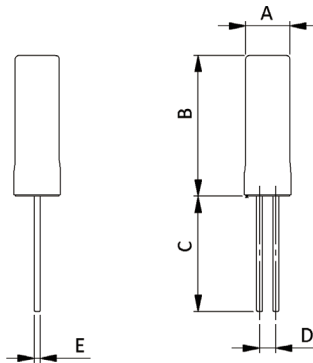
### Standard Specifications

Item	Value	
	3T	4T
Frequency Range	4.20MHz to 32.00MHz	4.00MHz to 4.194304MHz
Frequency Tolerance	±20ppm	
Frequency Tolerance over Temperature range	±50ppm	
Operating Temperature Range	-20°C to +70°C (or specify)	
Operable Temperature Range	-40°C to +85°C	
Drive Level	50uW Typ (300uW Max)	
Load Capacitance	12pF (or specify)	

### ESR Table

Frequency Range (MHz)	Standard ESR (Ohm)	Frequency Range (MHz)	Standard ESR (Ohm)
4.20 ~ 32.00	60 ~ 120	4.00 ~ 4.194304	120

### Dimension



TYPE	A	B	C	D	E
2T	∅2.0	6.2 Max	5.0 Min	0.7	∅0.25
3T	∅3.0	8.2 Max	9.0 Min	0.8	∅0.33
4T	∅3.0	9.2 Max	9.0 Min	0.8	∅0.33

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.

