

# **Quartz Series**

Series

JU-2\*6 JU-3\*8

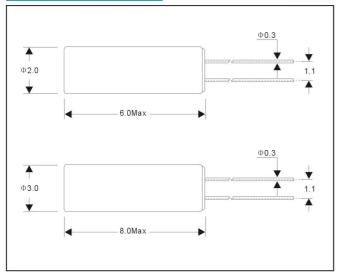


Series AT-3\*9



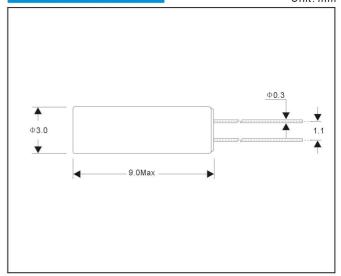
### External dimensions

Unit: mm



### **External dimensions**

Unit: mm



Item	Specification		Remarks	
Series	JU-2*6	JU-3*8		
Nominal	32.768KHz 30KHz to 170KHz		Standard	
Frequency Range			Available	
Frequency Tolerance	±20PPM(Standard)		Others are offered	
Turn Over	25°C +5°C			
Temperature(Frequency)	250 ±50			
Temperature	-0.04PPM×10 <sup>-6</sup> /°C <sup>2</sup>		Maxinum	
coefficient(Frequency)				
Load Capacitance	12.5pF to ∞(Standard)		Please specify	
Series Resistance	35KΩMax	50K Ω Max	32.768KHz	
Series Resistance	As ESR Table		30KHz to 170KHz	
Shunt Capacitance	0.9pF 0.8pF		Standard	
Drive Level	1.0 µ W		Maxinum	
Operating	-10℃ to +60℃(Standard)		Others are offered	
Temperature Range				
Storage	-40℃ to +85℃			
Temperature Range	-400 101000	*		
Insulated Resistance	100MΩ		Minimum	
Aging	±3PPM/Year		Maxinum, at 25℃ ±5℃	

Item	Specification	Remarks	
Nominal Frequency Range	10.000MHz to 28.000MHz 28.000MHz to 60.000MHz	Fundamental Mode; AT Cut  Overtone Mode; AT Cut	
Frequency Tolerance	±10PPM(Standard) at 25℃±3℃	Others are offered	
Load Capacitance	10pF to ∞	Please specify	
Series resistance	As ESR Table		
Shunt Capacitance	5pF Max		
Drive Level	10 μ W to 100 μ W	1000 µ W Мах	
Operating Temperature Range	-20°Cto +70°C (Standard)	Others are offered	
Storage Temperature Range	-30°Cto +85°C		
Stability Over Temperature Range	$\pm$ 30PPM(Standard)	Others are offered	
Insulated Resistance		Minimum at 100Vdc	
Aging	±3PPM/Year	Maxinum	

# Resistance of Series Resonance (ESR)

Frequency(KHz)	KΩ Max	Frequency(KHz)	KΩ Max
30.000~40.000	45	70.000~120.000	12
30.000~60.000	20	120.000~170.000	10
60.000~70.000	15		

#### Remark:

All specifications subject to change without notice.

# Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
10~12	Fund.	60	28~36	Fund.	100
12~16	Fund.	50	36~60	Fund.	80
16~28	Fund.	40		Fund.	

#### Remark:

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