

# Quartz Crystal And Ceramic Resonator

**KLS** electronic  
www.cnkls.com

## Quartz Crystal Unit Series

### KLS14-JU-206&308 Quartz Crystal Unit Series

#### FEATURE

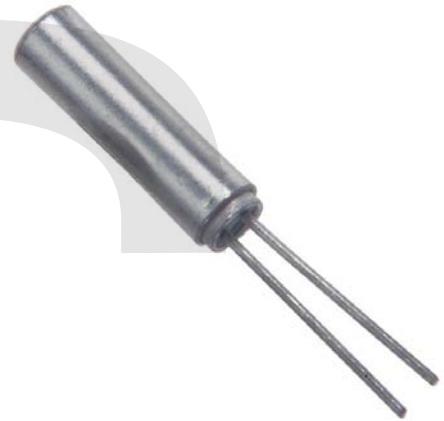
Wide Frequency range  
High shock tolerance  
Small size  
Reliable frequency stability

#### APPLICATIONS

Microprocessor Systems  
Consumer Electronics  
Instrumentation  
Automotive electronics

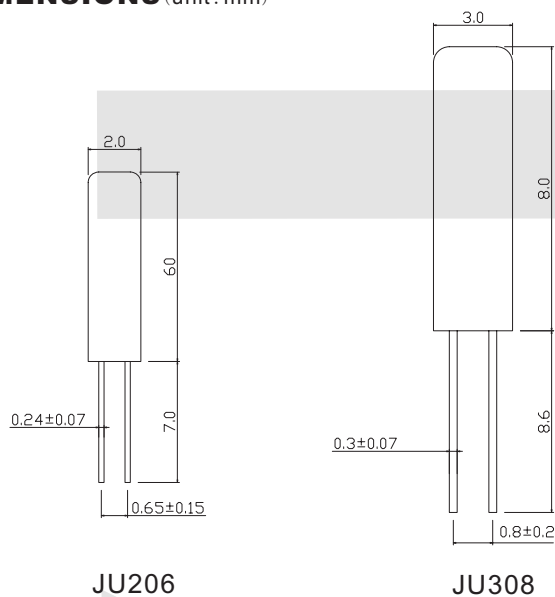
#### ELECTRICAL SPECIFICATIONS

Frequency: 25.600KHz~200.00KHz  
Frequency Tolerance (at 25°C):  $\pm 20\text{ppm} \sim \pm 100\text{ppm}$   
Turnover Temperature:  $25 \pm 5^\circ\text{C}$   
Frequency Temperature Curve:  $-0.034 (\pm 0.006) \text{ ppm}/^\circ\text{C}^2$   
Storage Temperature Range:  $-40^\circ\text{C} \sim +85^\circ\text{C}$   
Operable Temperature Range:  $-10^\circ\text{C} \sim +60^\circ\text{C}$ ,  $-20^\circ\text{C} \sim +70^\circ\text{C}$   
Shunt Capacitance: JU-206: 1.35pF  
JU-308: 1.8pF  
ESR: 25~40K $\Omega$   
Load Capacitance: 6.0pF~12.5pF, or specify  
Insulation resistance: More than 500M $\Omega$  at DC100V  
Driver Level: 1  $\mu\text{W}$  Max  
Aging @ 25°C 1st year (Max):  $\pm 3\text{ppm/year}$

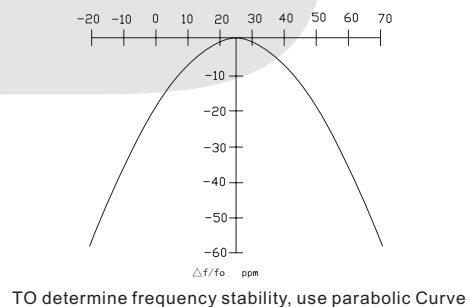


XIV

#### DIMENSIONS (unit: mm)



#### Parabolic Temperature Curve



## ORDER INFORMATION

KLS14- JU-206 -XXXX - XX - XX-XX

JU206: 2x6mm  
JU308: 3x8mm

Frequency: e.g. 32.768=32.768KHz  
Load Capacitance: e.g. 12.5=12.5pF

Operating Temperature Range:  
A:  $-10^\circ\text{C} \sim +60^\circ\text{C}$   
B:  $-20^\circ\text{C} \sim +70^\circ\text{C}$   
C:  $-30^\circ\text{C} \sim +85^\circ\text{C}$

Frequency Tolerance: e.g. 30= $\pm 30\text{ppm}$