



**FEATURES:**

- 3.0×8.0/ 2.0×6.0mm
- Custom specifications available



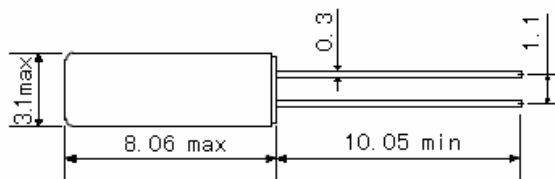
**Quartz Crystals**

--- Type: JU1/JU2

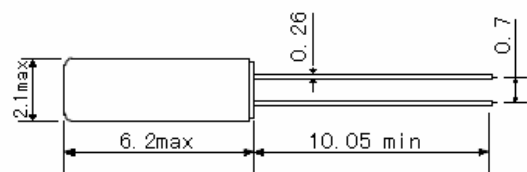
**SPECIFICATIONS:**

| Type                                   | JU1                                     | JU2                 |
|--|---|---------------------|
| Nominal Frequency                      | 30.000~200.000KHz                       |                     |
| Operating Temp. Range                  | -10℃~+60℃ (Standard)                    |                     |
| Storage Temperature                    | -40℃~+85℃                               |                     |
| Turnover Temperature                   | 25 ± 5℃                                 |                     |
| Frequency Tolerance @ 25℃              | ±30ppm (Standard)                       |                     |
| Frequency Stability Over Temp.         | (-0.034±0.006)*[25-T] <sup>2</sup> ppm* |                     |
| Equivalent Series Resistance (ESR) max | 32KHz~39KHz                             | 40KΩ max            |
|  | 40KHz~59KHz                             | 30KΩ max            |
|  | 60KHz~69KHz                             | 25KΩ max            |
|  | 70KHz~99KHz                             | 22KΩ max            |
|  | 100KHz~200KHz                           | 20KΩ max            |
| Shunt Capacitance                      | 1.60pF (Standard)                       | 1.35pF (Standard)   |
| Load Capacitance                       | 12.5pF (Standard)                       |                     |
| Motional Capacitance                   | 0.0035pF (Standard)                     | 0.0030pF (Standard) |
| Drive Level                            | 1.0μW Max                               |                     |
| Quality Factor                         | 90, 000 (Standard)                      | 70, 000 (Standard)  |
| Capacitance Ratio                      | 460 (Standard)                          | 450 (Standard)      |
| Insulation Resistance                  | 500MΩ min. at 100 VDC±15V               |                     |

**JU1 (308)**



**JU2 (206)**



**ORDER OPTIONS:**

| Type | Frequency (KHz) | Freq. Tolerance (ppm) | Operating Temp. Range (℃) |
|------|-----------------|-----------------------|---------------------------|
| JU1  | 30.000          | ±20                   | A0 = 0~+50                |
| JU2  | ~               | ±30                   | A1 = -10~+60              |
|      | 200.000         | ±50                   | A2 = -20~+70              |

**I.e. JU1-32.768-30-A1**