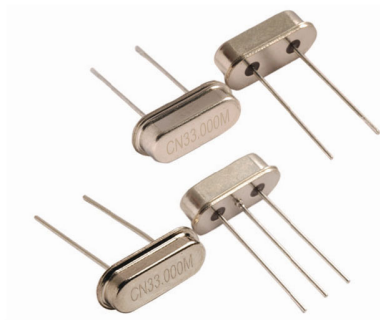


## HC-49S Series



### Description:

- Low Cost
- Consumer Electronic Products
- Wide Frequency Range
- Industrial Equipment
- Excellent Aging
- Military Equipment
- AT or BT Cut Crystal
- Communication Equipment

### Performance Characteristics

| Parameter                     |                  | HC-49S   | HC-49SA        | HC-49SB       |
|-------------------------------|------------------|--|----------------|---------------|
| Frequency Range (MHz)         | F <sub>0</sub>   | 3.579~40.000                                   | 20.000~40.000  | 24.000~70.000 |
| Mode of Vibration             |                  | AT Fundamental                                 | BT Fundamental | 3rd Overtone  |
| Resonance Resistance (Ω)      | R <sub>r</sub>   | 30~180   | 40             | 30~120        |
| Frequency Tolerance (at 25°C) |                  | ±3×10 <sup>-6</sup> ~±30×10 <sup>-6</sup>      |                |               |
| Storage Temperature Range     | T <sub>STG</sub> | -55°C~+125°C                                   |                |               |
| Shunt Capacitance             | C <sub>0</sub>   | 7pF Max  |                |               |
| Load Capacitance              | CL               | 6pF~50pF or Series                             |                |               |
| Insulation Resistance         | IR               | >500MΩ DC/100V±10V                             |                |               |
| Drive Level                   | DL               | 0.01mW~0.1mW                                   |                |               |
| Aging                         | Fa               | ±3×10 <sup>-6</sup> ~±5×10 <sup>-6</sup> /year |                |               |

### Frequency Stability Over Temperature Range

| Temperature Range | Frequency Stability    |                        |                        |                        |                        |
|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                   | O:±10×10 <sup>-6</sup> | P:±15×10 <sup>-6</sup> | Q:±20×10 <sup>-6</sup> | S:±30×10 <sup>-6</sup> | T:±50×10 <sup>-6</sup> |
| A:0°C~+50°C       | ●                      | ●                      | ●                      | ●                      | ●                      |
| B:-10°C~+60°C     | ●                      | ●                      | ●                      | ●                      | ●                      |
| C:-20°C~+70°C     |                        | ●                      | ●                      | ●                      | ●                      |
| G:-40°C~+85°C     |                        | ●                      | ●                      | ●                      | ●                      |
| J:-55°C~+125°C    |                        |                        |                        |                        | ※                      |

※: Specially designated products.

### Outline Drawing (mm)

