

# HC-49/U, HC-49/T Quartz Crystal Resonator

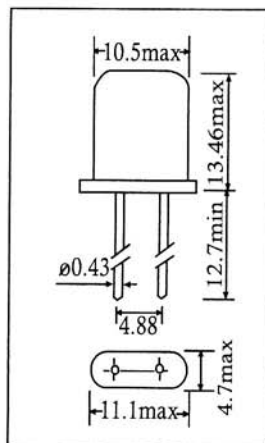
## Specifications

|                      |  |                    |  |
|----------------------|--|--------------------|--|
| Frequency Range      | 3~150MHz   | Holder Type        | 49/U 49/T  |
| Adjustment Tolerance | $\pm 10\text{ppm}$ , $\pm 15\text{ppm}$<br>$\pm 20\text{ppm}$ , $\pm 30\text{ppm}$ | Vibration Mode     | Fund. 3rd 5rd  |
| Load Capacitance     | 10pF~32pF  | Static Capacitance | 7pF max  |
| Drive Level          | 0.02~0.05mW  | Aging              | $\pm 2\text{ppm}(\text{year})$<br>$\pm 5\text{ppm}(\text{year})$ |

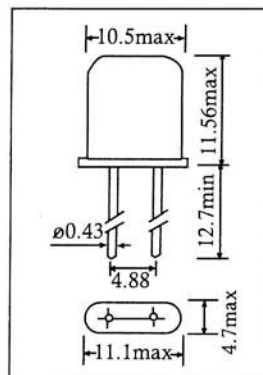
## Resonance Resistance

| Type    | Freq.Range | Mode | Rr |
|---------|------------|------|----|
| 49U 49T | 3~5MHz     | 1    | 70 |
| 49U 49T | 6~9MHz     | 1    | 40 |
| 49U 49T | 10~31MHz   | 1    | 20 |
| 49U 49T | 24~90MHz   | 3    | 35 |
| 49U 49T | 75~150MHz  | 5    | 70 |

HC-49/U



HC-49/T



## Tolerance over Temperature Range

| Temperature Range | $\pm 5\text{ppm}$ | $\pm 10\text{ppm}$ | $\pm 15\text{ppm}$ | $\pm 20\text{ppm}$ | $\pm 30\text{ppm}$ | $\pm 40\text{ppm}$ |
|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 0°C~+50°C         | △                 | △                  | △                  | △                  | △                  | △                  |
| -10°C~+60°C       | △                 | △                  | △                  | △                  | △                  | △                  |
| -20°C~+70°C       | △                 | △                  | △                  | △                  | △                  | △                  |
| -40°C~+85°C       |                   |                    | △                  | △                  | △                  | △                  |