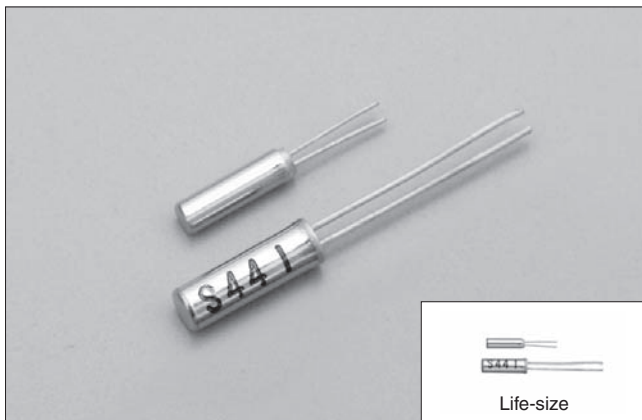


TUNING FORK CRYSTAL UNITS (Cylinder Type)

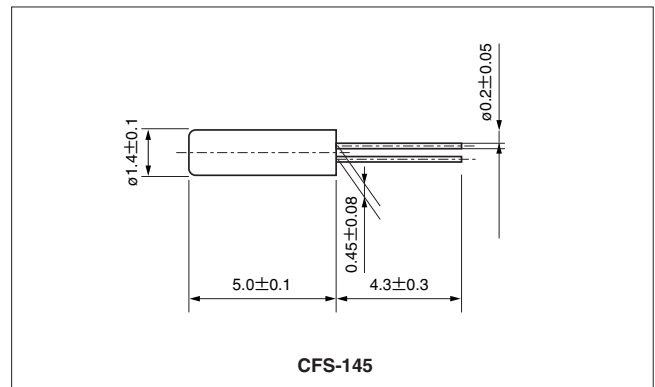
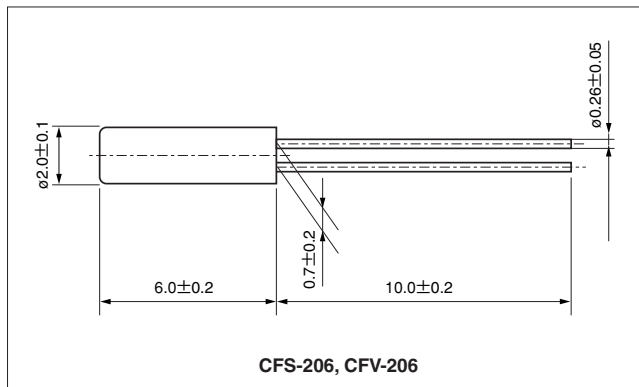
CFS-206·CFS-145·CFV-206



FEATURES

- Best suited for portable devices with low current consumption.
- For a clock source in digital equipment.

DIMENSION [mm]



STANDARD SPECIFICATIONS

| Item | Model | CFS-206 | CFS-145 | CFV-206 | Conditions |
|------------------------------|----------------|---|-------------------|------------------------|---|
| Nominal Frequency | f_0 | 32.768kHz | | 30kHz~100kHz | Need to contact us for the available frequency in CFV-206 |
| Frequency Tolerance | $\Delta f/f_0$ | $\pm 20\text{ppm}$ | | $\pm 30\text{ppm}$ | at 25°C |
| Load capacitance | C_L | 12.5pF | 8.0pF | 12.5pF | Need to specify your requirement |
| Operating Temperature Range | T_{OPR} | -20°C ~ +70°C | | | |
| Storage Temperature Range | T_{STR} | -40°C ~ +85°C | | | |
| Turnover Temperature | T_M | 25°C $\pm 5^\circ\text{C}$ | | | See figure 2 in P4 |
| Temperature Coefficient | β | -0.034 $\pm 0.006\text{ppm}/^\circ\text{C}^2$ | | | |
| Motional (series) resistance | R_1 | 35K Ω Max. | 40K Ω Max. | 50K Ω Max. | at 25°C |
| Level of drive | D_L | 1 μW Max. | | | |
| Aging (first year) | $\Delta f/f_0$ | $\pm 3\text{ppm}$ Max. | | $\pm 5\text{ppm}$ Max. | 25°C $\pm 3^\circ\text{C}$ |
| Quality Factor | Q | 70000 Typ. | 85000 Typ. | 70000~100000 Typ. | Depend on frequency |
| Shunt capacitance | C_0 | 1.35pF Typ. | 1.00pF Typ. | 0.8~1.7pF Typ. | Depend on frequency |