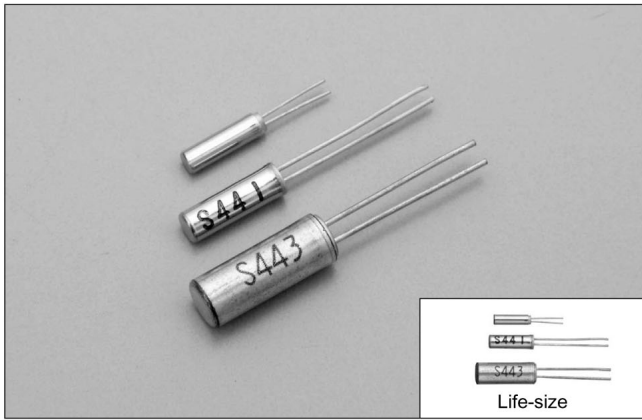


# TUNING FORK CRYSTAL UNITS (Cylinder Type)

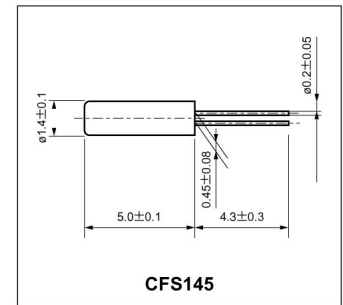
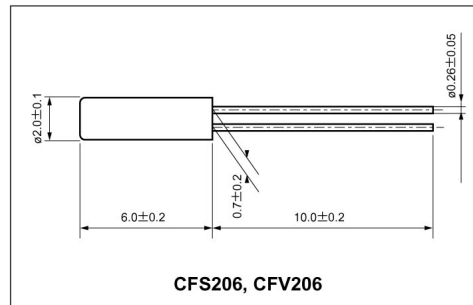
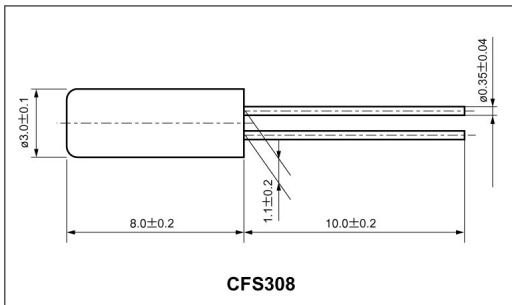
RoHS Compliant Optional **CFS308·CFS206·CFS145·CFV206**



## FEATURES

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

## DIMENSION [mm]



## STANDARD SPECIFICATIONS

Item	Model	CFS308	CFS206	CFS145	CFV206	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				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°C				See figure 2 in P4
Temperature Coefficient	$\beta$	$-0.034 \pm 0.006\text{ppm}/^\circ\text{C}^2$				
Motional (series) resistance	$R_1$	35K $\Omega$ Max.		40K $\Omega$ Max.	50K $\Omega$ Max.	at 25°C
Level of drive	DL	1 $\mu$ W Max.				
Aging (first year)	$\Delta f/f_0$	$\pm 3\text{ppm}$ Max.			$\pm 5\text{ppm}$ Max.	25°C $\pm$ 3°C
Quality Factor	Q	85000 Typ.	70000 Typ.	85000 Typ.	70000~100000 Typ.	Depend on frequency
Shunt capacitance	$C_0$	1.6pF Typ.	1.35pF Typ.	1.00pF Typ.	0.8~1.7pF Typ.	Depend on frequency