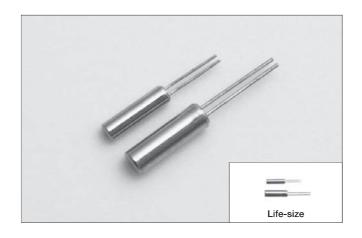


TUNING FORK CRYSTAL UNITS (Cylinder Type)

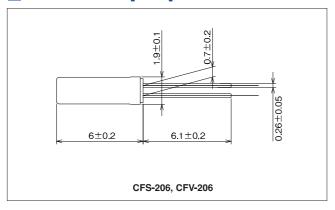
RoHS compliant / Pb free CFS-206·CFS-145·CFV-206

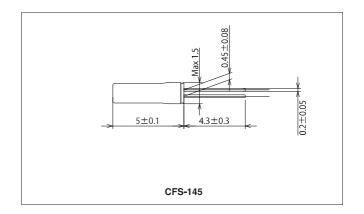


FEATURES

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

■ DIMENSION [mm]

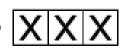




■ STANDARD SPECIFICATIONS

Item	Model	CFS-206	CFS-145	CFV-206	Conditions
Nominal Frequency	fo	32.768kHz		30kHz~100kHz	Need to contact us for the available frequency in CFV-206
Frequency Tolerance	△ f/fo	± 20 ppm		±30ppm	at 25℃
Load capacitance	CL	12.5pF	8.0pF	12.5pF	Need to specify your requirement
Operating Temperature Range	Topr	−20°C~+70°C			
Storage Temperature Range	Tstr	-40°C∼+85°C			
Turnover Temperature	Тм	25℃±5℃			
Temperature Coefficient	β	-0.034±0.006ppm/°C²			
Motional (series) resistance	R ₁	35KΩMax.	40K Ω Max.	50K Ω Max.	at 25°C
Level of drive	DL	1 μW Max.			
Aging (first year)	△ f/fo	±3ppm Max.		±5ppm Max.	25℃±3℃
Shunt capacitance	Co	1.2pF Typ.	1.00pF Typ.	0.8∼1.7pF Typ.	Depend on frequency

CM315D 32 768 D Z F T — X X



Model

CFS-206 CFS-145 CFY-206 CMR200T CMJ206T CM200C CM250C CM519 CM415 CM3 15D

CM130

Frequency

Please mention numeral of the frequency in Hz unit.

Frequency deviation (at 25°c)

Standard specification shall differ subject to frequency.

- A +/-30ppm (STD)
- B +/-50ppm
- C +/-100ppm
- D +/-20ppm (STD) 32.768KHz
- E +/-10ppm
- F +/-15ppm
- G +/-25ppm
- H +/-5ppm
- Z others

CTZ management code

It is a number to be assigned by CTZ after inquiry from a customer.

Package specification

- Tape and Reel (Standard package unit)
- B Bulk (Without taping/ Bulk Package)

Load capacitance (CL)

- A Series
- G 13.0pF
- B 6.0pF
- Q 10.0pF
- C 9.0pF (STD) S 11.0pF
- D 9.5pF

- V 8.0pF
- E 12.0pF
- Y 7.0pF
- F 12.5pF (STD)
- Z others

Frequency-temperature characteristic (at operating temperature range)

Z Standard spec only