

# Tuning Fork Crystal Unit (SMD / Plastic Package)

RoHS Compliance

**CM200C - CM250C**

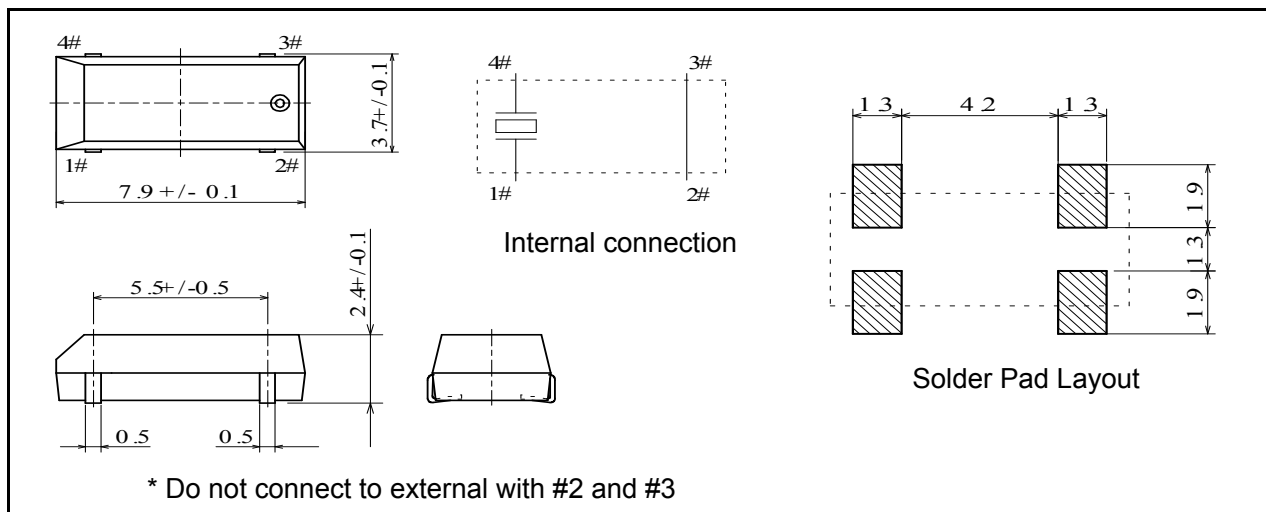
(3,000pcs / reel)



## ■ Feature

- Excel at moisture resistance.
- Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
- Automatic mounting and reflowable type.
- Most appropriate for clock source for portable with low power consumption.

## ■ Dimensions (mm)



## ■ Standard Specifications

Item	Model	CM200C	CM250C	Conditions
Nominal frequency	f <sub>0</sub>	32.768kHz	30kHz~100kHz	
Frequency tolerance	Δf/f <sub>0</sub>	+/- 20ppm	+/- 30ppm	at 25 degC
Load capacitance	C <sub>L</sub>	12.5pF		Please specify
Operating temperature range	T <sub>OPR</sub>	-40 ~ +85 degC		
Storage temperature range	T <sub>STR</sub>	-55 ~ +125 degC		
Turnover temperature	T <sub>M</sub>	25 +/- 5 degC		
Temperature coefficient	β	-0.034 +/- 0.006ppm/degC <sup>2</sup>		
Motional (series) resistance	R <sub>1</sub>	50K Ohm Max.		at 25 degC
Level of drive	D <sub>L</sub>	1μW Max.		
Aging (first year)	Δf/f <sub>0</sub>	+/- 3ppm Max.	+/- 5ppm Max.	25 degC +/- 3degC
Quality factor	Q	70,000 Typ.	70,000 ~ 100,000Typ.	
Shunt capacitance	C <sub>0</sub>	1.35pF Typ.	0.8pF ~ 1.7pF Typ.	