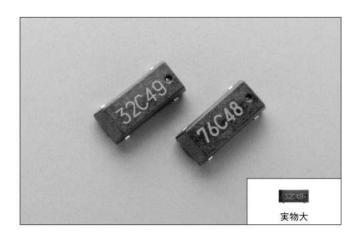


# TUNING FORK CRYSTAL UNITS (SMD · Plastic Package)

**RoHS Compliant Optional** 

# CM200S · CM250S

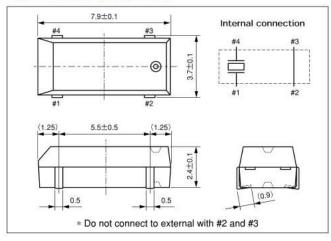
3000pcs/reel



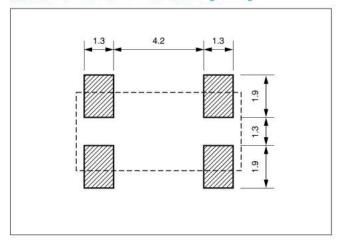
## **FEATURES**

- Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
- Automatic mounting and reflowable Type.
- Most appropriate for clock source for portable and autmotive equipment with low power consumption.

# **■DIMENSION** [mm]



### ■SOLDER PAD LAYOUT [mm]



#### STANDARD SPECIFICATIONS

Item	Model	CM200S	CM250S	Conditions
Nominal Frequency	fo	32.768kHz	30kHz~100kHz	Need to contact us for the available frequency in CM250S
Frequency Tolerance	△f/fo	±20ppm	$\pm$ 30ppm	at 25°C
Load capacitance	CL	12.5pF		Need to specify your requirement
Operating Temperature Range	TOPR	-40°C∼+85°C		
Storage Temperature Range	TSTR	−55°C~+125°C		
Turnover Temperature	Тм	25℃±5℃		See figure 2 in P4
Temperature Coefficient	β	-0.034±0.006ppm/℃²		
Motional (series) resistance	R <sub>1</sub>	50K Ω Max.		at 25°C
Level of drive	DL	1 μW Max.		
Aging (first year)	△f/fo	±3ррт Мах.	±5ppm Мах.	25℃±3℃
Quality Factor	Q	70000 Typ.	70000 ~ 100000 Typ.	Depend on frequency
Shunt capacitance	Co	1.35pF Typ.	0.8pF ∼ 1.7pF Typ.	Depend on frequency