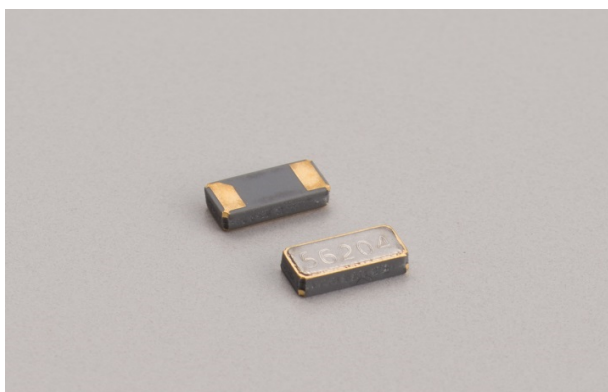


TUNING FORK CRYSTAL UNIT (SMD · Ceramic Package)

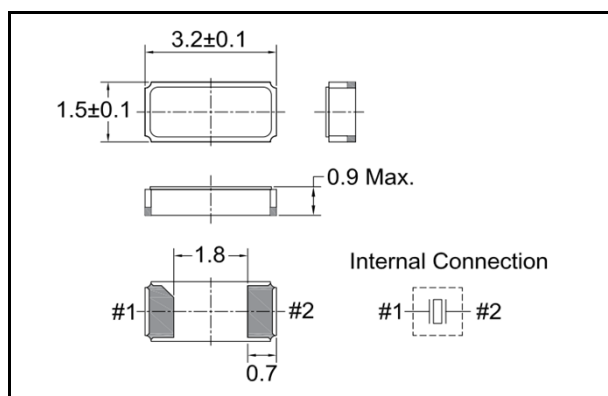
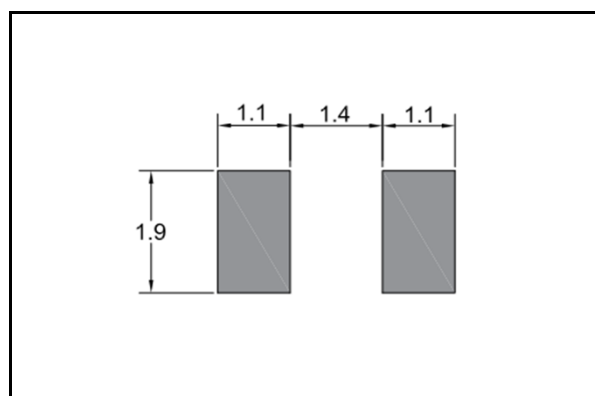
RoHS compliant / Pb free

CM315D

3,000pcs/reel

**FEATURES**

- Frequency range : 32.768kHz
- External dimensions (mm)
L : 3.3 x W : 1.6 x H : 0.9
- Applications
Smart Meters / Small mobile devices /
Consumer products

DIMENSION [mm]**SOLDER PAD LAYOUT [mm]****STANDARD SPECIFICATIONS**

Item	Model	CM315D	Conditions
Nominal Frequency	f_0	32.768kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 5\text{ppm} / \pm 10\text{ppm} / \pm 20\text{ppm}$	at 25°C
Load capacitance	C_L	6.0pF / 7.0pF / 9.0pF / 12.5pF	Please specify your requirement
Operating Temperature Range	T_{OPR}	-40°C ~ +85°C	
Storage Temperature Range	T_{STR}	-55°C ~ +125°C	
Turnover Temperature	T_M	25°C ± 5°C	
Temperature Coefficient	β	$-0.034 \pm 0.006 \text{ppm}/^\circ\text{C}^2$	
Motional (series) resistance	R_1	70K 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.	25°C ± 3°C
Shunt capacitance	C_0	0.95pF Typ.	

