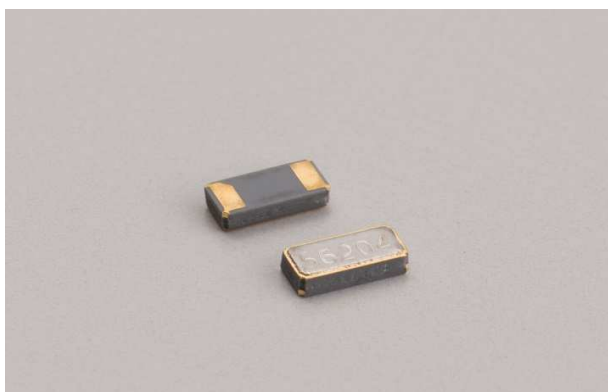


**TUNING FORK CRYSTAL UNIT (SMD · Ceramic Package)**

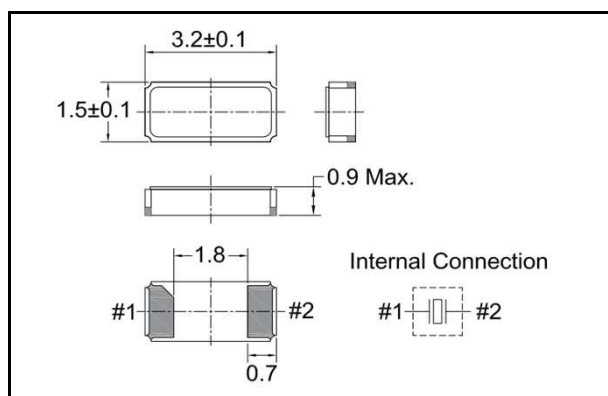
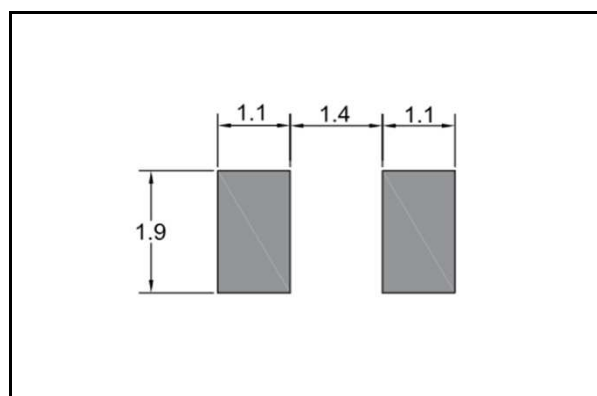
RoHS compliant / Pb free

**CM315D**

3,000pcs/reel

**■ FEATURES**

- Frequency range : 32.768kHz
- External dimensions (mm)  
L : 3.2 x W : 1.5 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	$\beta$	$-0.034 \pm 0.006 \text{ppm}/^\circ\text{C}^2$	
Motional (series) resistance	$R_1$	70K $\Omega$ Max.	at 25°C
Level of drive	$D_L$	1 $\mu\text{W}$ Max.	
Aging (first year)	$\Delta f/f_0$	$\pm 3\text{ppm}$ Max.	25°C ± 3°C
Shunt capacitance	$C_0$	0.95pF Typ.	

