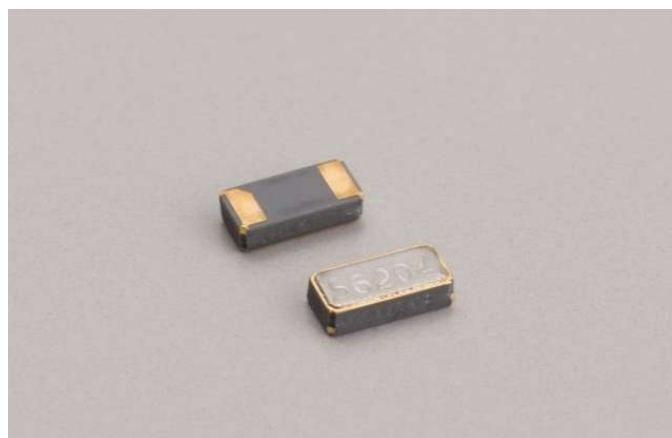


TUNING FORK CRYSTAL UNIT (SMD • Ceramic Package)

RoHS compliant / Pb free

CM315D

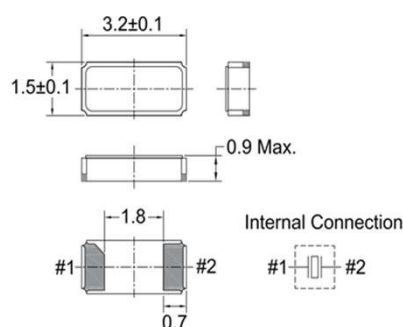
3,000pcs/reel



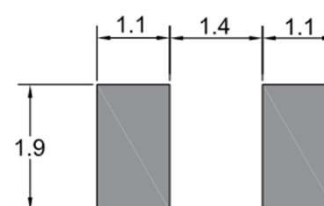
■ FEATURES

- 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 / IoT Modules

■ DIMENSION [mm]



■ SOLDER PAD LAYOUT [mm]



Do not design any patterns underneath the parts.

■ STANDARD SPECIFICATIONS

Item		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 $\pm$ 5°C	
Temperature Coefficient	β	-0.034 $\pm$ 0.006ppm/°C ²	
Motional (series) resistance	R_1	70K Ω Max.	at 25°C
Level of drive	D_L	1.0 μ W Max.	
Aging (first year)	$\Delta f/f_0$	$\pm 3\text{ppm}$ Max.	25°C $\pm$ 3°C
Shunt capacitance	C_0	0.95pF Typ.	

