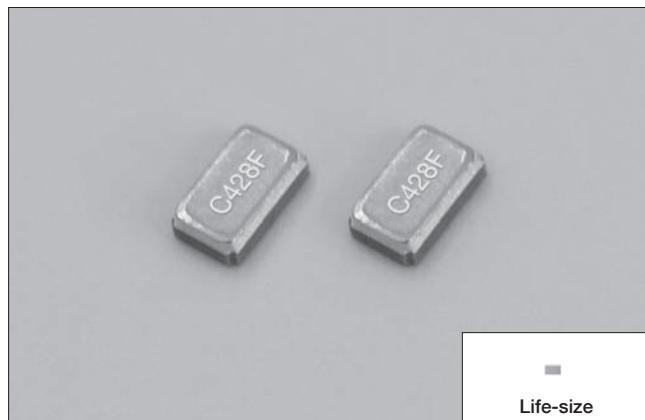


TUNING FORK CRYSTAL UNIT (SMD • Ceramic Package)

RoHS compliant / Pb free

CM2012H

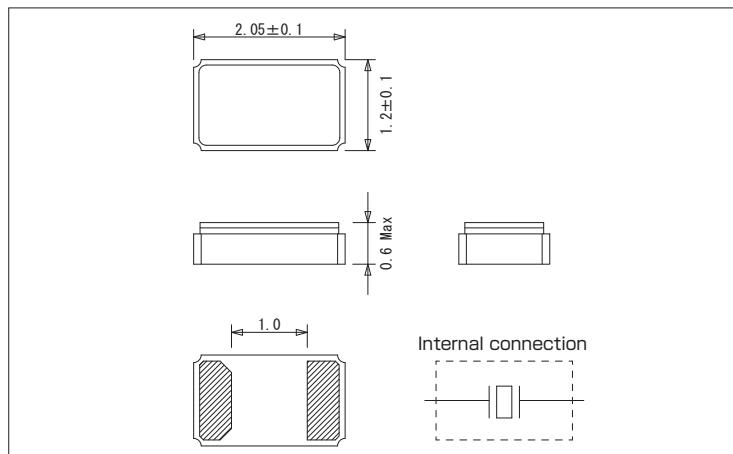
3000pcs/reel



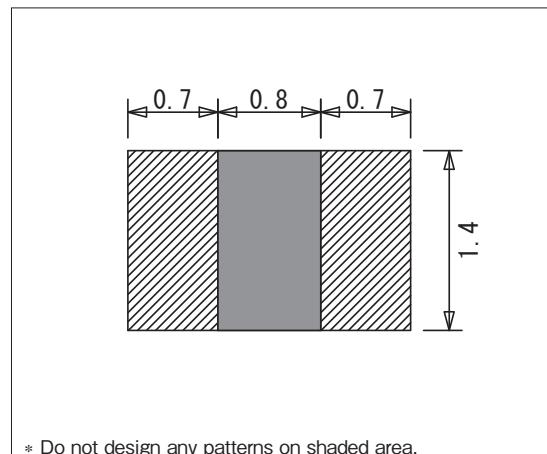
■ FEATURES

- Tuning fork crystal with ceramic packaged type.
- High-density SMD type
Ultra-light weight with ultra-miniature packaging.
High-stability assured with tight vacuum sealing.
- Most appropriate for portable devices and mobile telecommunications devices.

■ DIMENSION [mm]



■ SOLDER PAD LAYOUT [mm]



■ STANDARD SPECIFICATIONS

Item	Model	CM2012H	Conditions
Nominal Frequency	f_0	32.768kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 20\text{ppm}$	at 25°C
Load capacitance	C_L	12.5pF	Need to 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	$25^\circ\text{C} \pm 5^\circ\text{C}$	
Temperature Coefficient	β	$-0.033 \pm 0.003\text{ppm}/^\circ\text{C}^2$	
Motional (series) resistance	R_1	70KΩ Max.	at 25°C
Level of drive	D_L	$1.0 \mu\text{W}$ Max.	
Aging (first year)	$\Delta f/f_0$	$\pm 3\text{ppm}$ Max.	$25^\circ\text{C} \pm 3^\circ\text{C}$
Shunt capacitance	C_0	1.3pF Typ.	