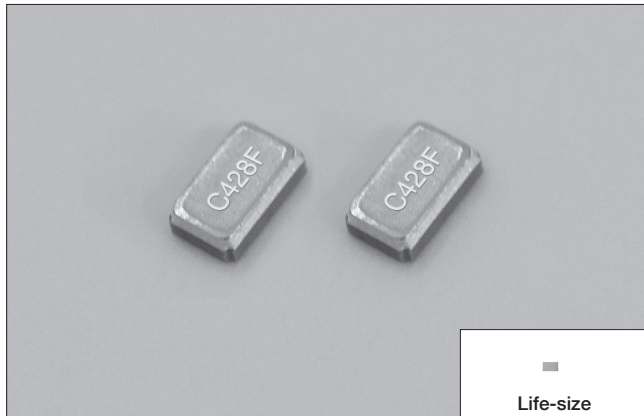


TUNING FORK CRYSTAL UNIT (SMD • Ceramic Package)

RoHS compliant / Pb free

CM212H

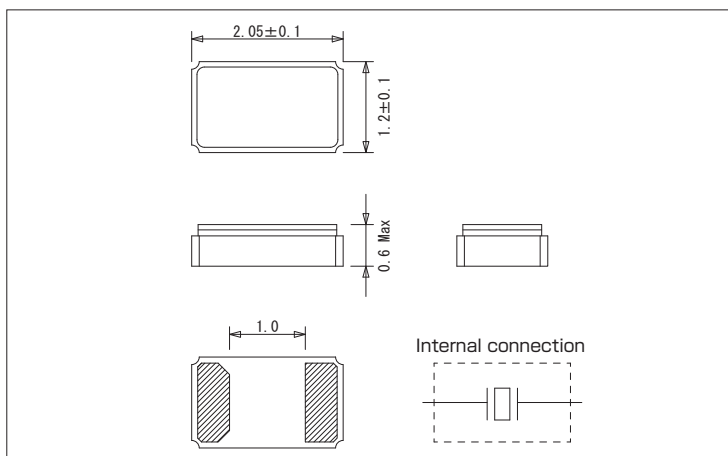
3000pcs/reel



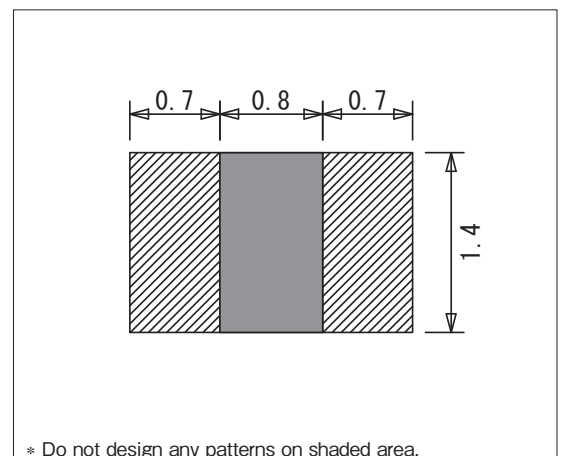
FEATURES

- 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 | CM212H | 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°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 | 70K Ω Max. | at 25°C |
| Level of drive | D_L | 1.0 μW Max. | |
| Aging (first year) | $\Delta f/f_0$ | $\pm 3\text{ppm}$ Max. | 25°C $\pm 3^\circ\text{C}$ |
| Shunt capacitance | C_0 | 1.3pF Typ. | |