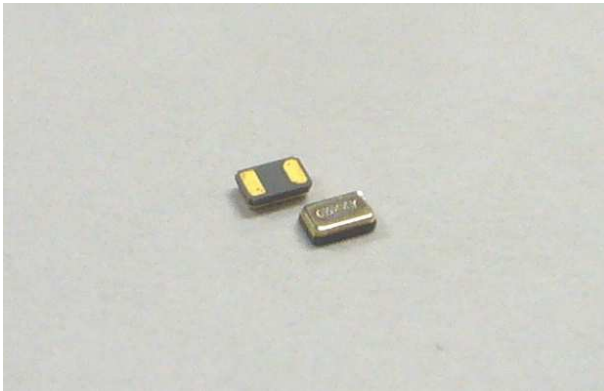


TUNING FORK CRYSTAL UNIT (SMD · Ceramic Package)

RoHS compliant / Pb free

CM1610H

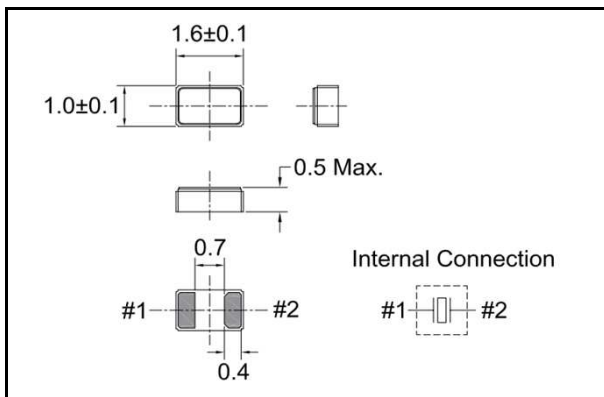
5,000pcs/reel



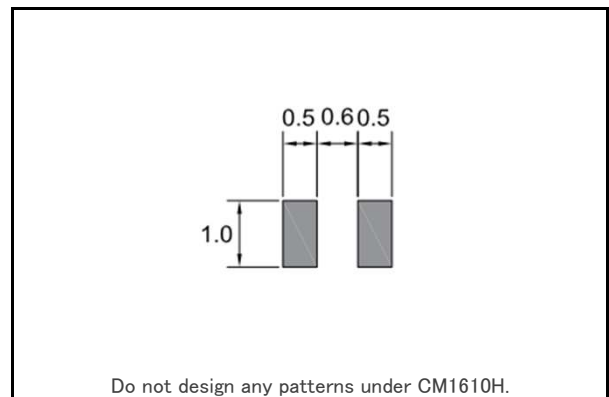
■ FEATURES

- Ultra-lightweight microminiature TF Crystal units SMD type
- Frequency range : 32.768kHz
- External dimensions (mm)
L : 1.6 x W : 1.0 x H : 0.5
- Applications
Small communication devices

■ DIMENSION [mm]



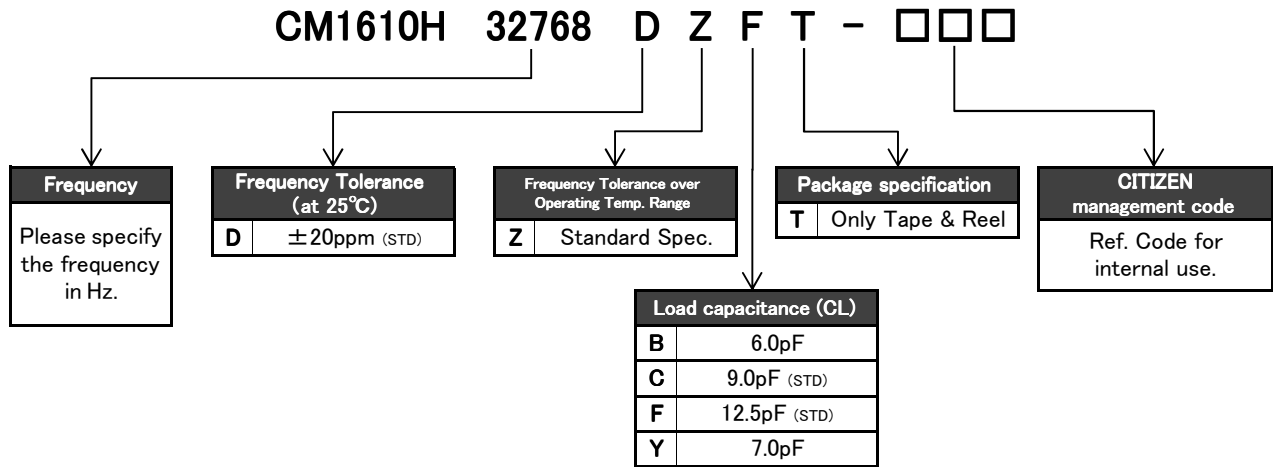
■ SOLDER PAD LAYOUT [mm]



■ STANDARD SPECIFICATIONS

| Item | Model | CM1610H | Conditions |
|------------------------------|----------------|------------------------------------|---------------------------------|
| Nominal Frequency | f_0 | 32.768kHz | |
| Frequency Tolerance | $\Delta f/f_0$ | ± 20 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 | (-0.036 ± 10%) ppm/°C ² | |
| Motional (series) resistance | R_1 | 90K Ω Max. | at 25°C |
| Level of drive | D_L | 0.5 μW Max. | |
| Aging (first year) | $\Delta f/f_0$ | ± 3 ppm Max. | 25°C ± 3°C |
| Shunt capacitance | C_0 | 1.2pF Typ. | |

■ PART NUMBERING SYSTEM



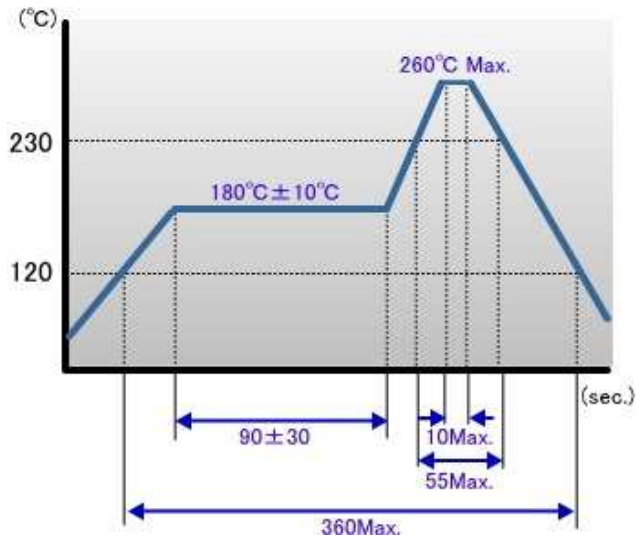
*Please contact us for specifications available.

■ Part Marking [standard]

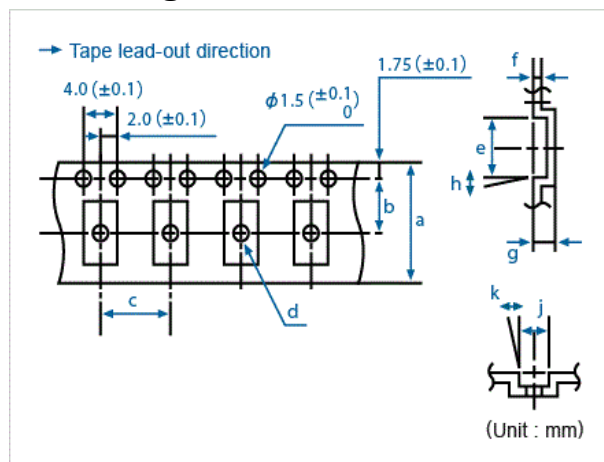


- C : Manufacture's ID Code
- y : The last digit of production year
- w : Production week code
- * : CL Code
 - B: 6.0pF
 - C: 9.0pF
 - F: 12.5pF
 - Y: 7.0pF

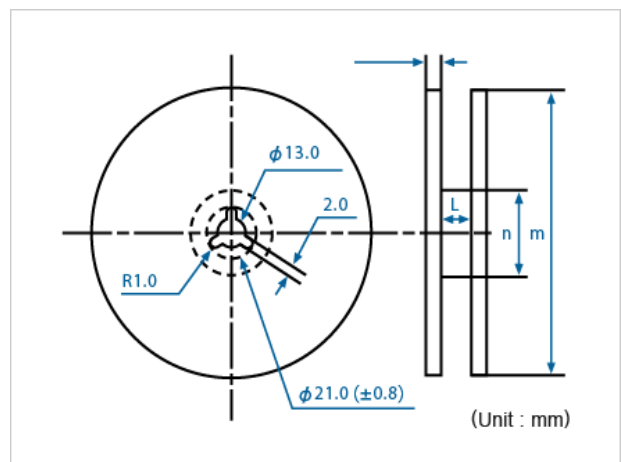
■ Reflow profile



■ Packing



Conforming to JIS C 0806 TB1208NEIAJ and RC-1009B TE1208N



Conforming to JIS C 0806 R12R and EIAJ RC-1009B R15

| Q'ty/reel | a | b | c | d (φ) | e | f | g | h | j | k | l | m (φ) | n (φ) |
|-----------|-----|-----|-----|-------|-----|------|-----|----|-----|----|-----|-------|-------|
| 5,000 | 8.0 | 3.5 | 4.0 | 0.5 | 1.8 | 0.23 | 0.6 | 5° | 1.2 | 5° | 9.0 | 180 | 60 |

Product specifications are subject to change without notice.

Rev.2