CITIZEN

TUNING FORK CRYSTAL UNIT (SMD · Plastic Package)

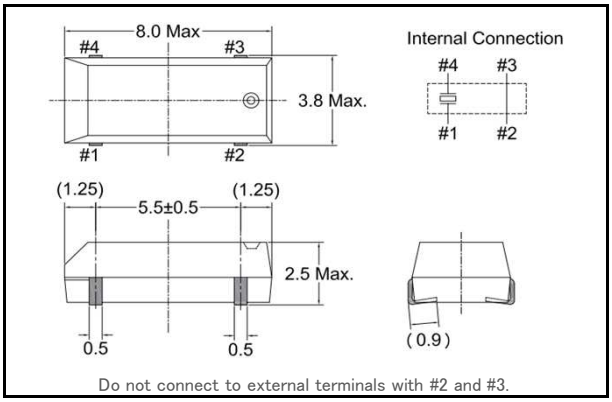
RoHS compliant | **CM200C** | **3,000pcs/reel**



■ FEATURES

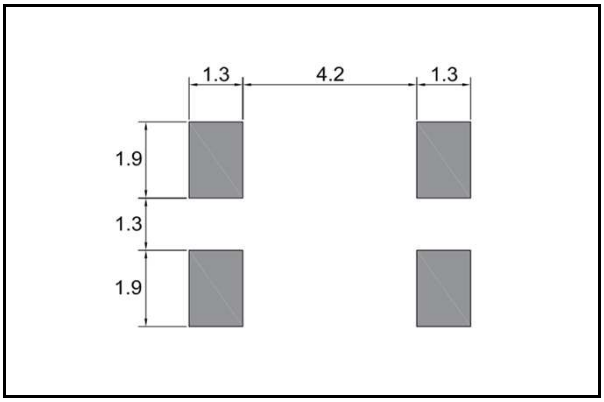
- Frequency range : 32.768kHz
- External dimensions (mm)
  L : 8.0 x W : 3.8 x H : 2.55
- Applications
  Smart Meters / Consumer products

■ DIMENSION [mm]



Do not connect to external terminals with #2 and #3.

■ SOLDER PAD LAYOUT [mm]



■ STANDARD SPECIFICATIONS

Item / Model		CM200C	Conditions
Nominal Frequency	f_0	32.768kHz	
Frequency Tolerance	$\Delta f/f_0$	±5ppm / ±10ppm / ±20ppm	at 25℃
Load capacitance	C_L	6.0pF / 7.0pF / 9.0pF / 12.5pF	Please specify your requirement
Operating Temperature Range	T_{OPR}	−40℃ ～ +85℃	
Storage Temperature Range	T_{STR}	−55℃ ～ +125℃	
Turnover Temperature	T_M	25℃±5℃	
Temperature Coefficient	β	−0.034±0.006ppm/℃^{2}	
Motional (series) resistance	R_1	50KΩ Max.	at 25℃
Level of drive	D_L	1μW Max.	
Aging (first year)	$\Delta f/f_0$	±3ppm Max.	25℃±3℃
Shunt capacitance	C_0	1.35pF Typ.	

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■ PART NUMBERING SYSTEM

CM200C 32768 D Z F T - □□□

Frequency

Please specify the frequency in Hz.

Frequency Tolerance (at 25℃)

D	±20ppm (STD)
E	±10ppm
H	±5ppm

Frequency Tolerance over Operating Temp. Range

Z	Standard Spec.

Load capacitance (CL)

B	6.0pF
C	9.0pF (STD)
F	12.5pF (STD)
Y	7.0pF

Package specification

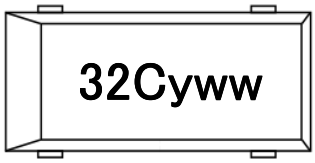
T	Only Tape & Reel

CITIZEN management code

Ref. Code for internal use.

*Please contact us for specifications available.

■ Part Marking [standard]

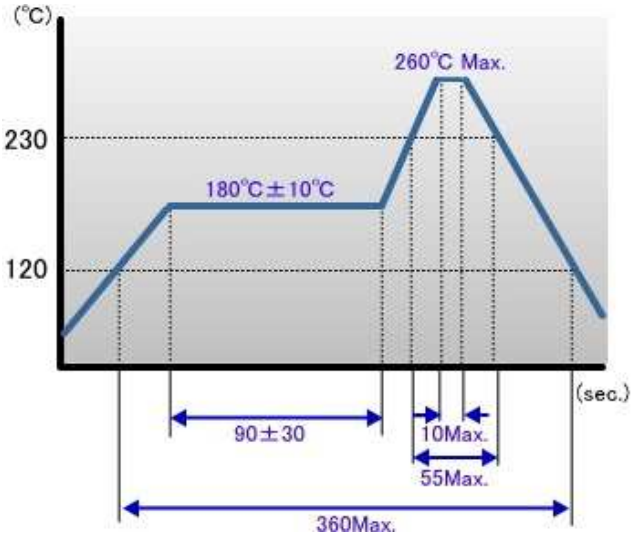


32C : Manufacture's ID Code

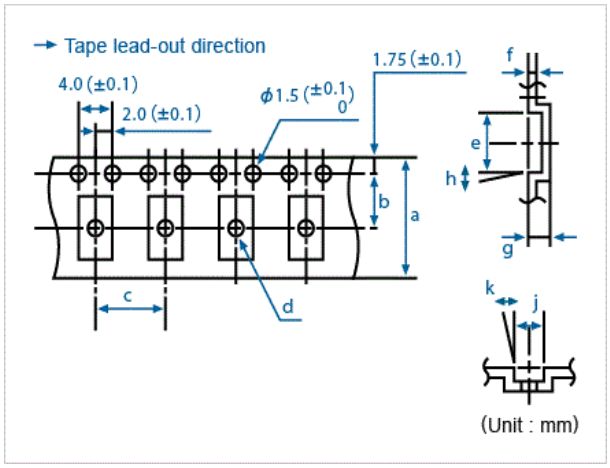
y : The last digit of production year

w : Production week code

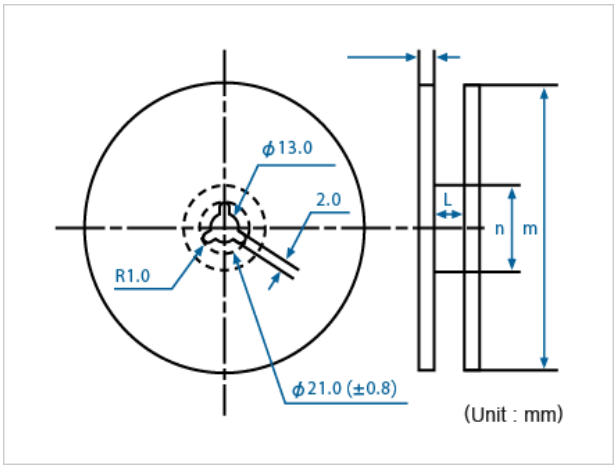
■ Reflow profile



■ 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)
3,000	16.0	7.5	8.0	1.6	8.3	0.3	2.70	5°	4.05	5°	17.5	330	100

Product specifications are subject to change without notice.

Rev.2

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