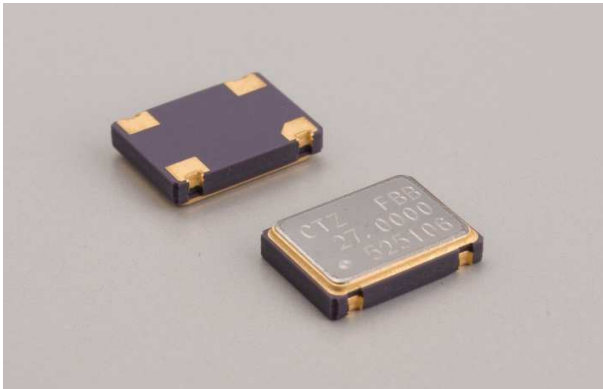


## CRYSTAL CLOCK OSCILLATORS (SMD · Ceramic Package)

RoHS compliant

# CSX-750F

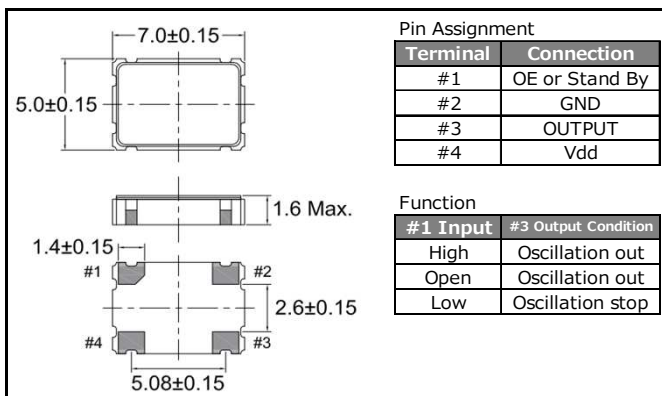
1,000pcs/reel



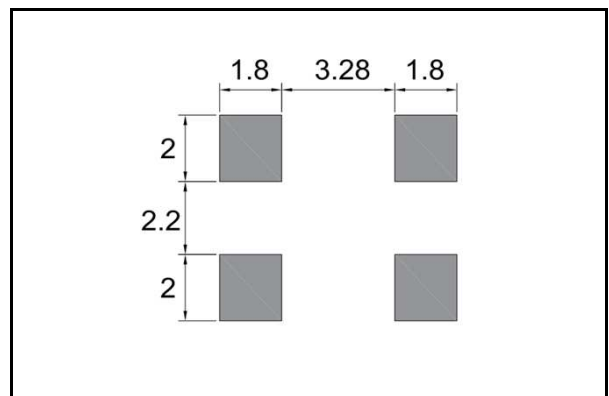
### FEATURES

- Frequency range : 1.0 ~ 80.0MHz
- External dimensions (mm)  
L : 7.0 x W : 5.0 x H : 1.6
- Applications  
Consumer products

### DIMENSION [mm]



### SOLDER PAD LAYOUT [mm]

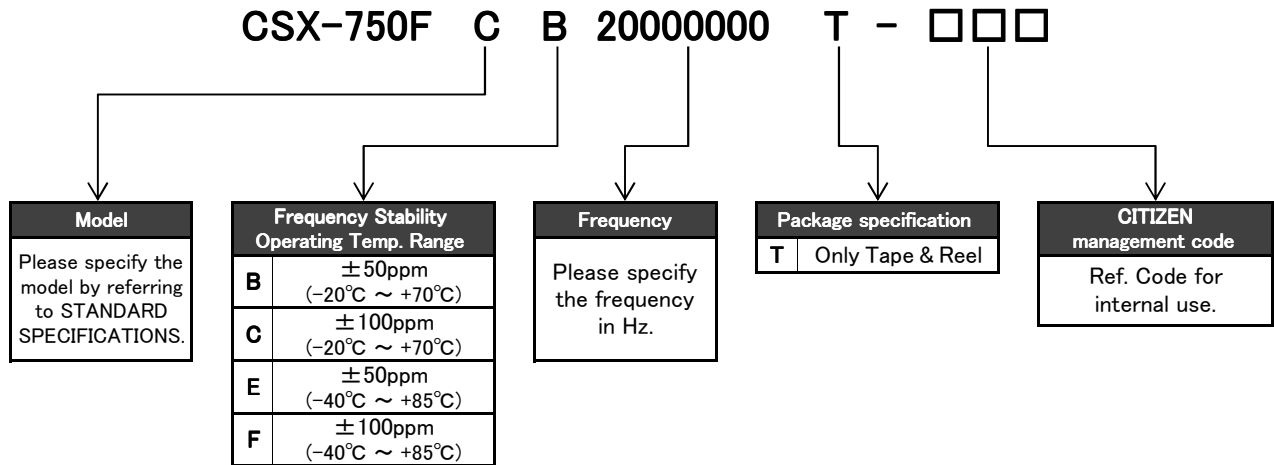


### STANDARD SPECIFICATIONS

\*Model is determined by selection of OE/ST functions, frequency stability, and supply voltage.

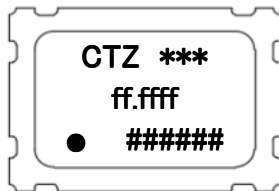
| Item                        | Model                | OE       | CSX-750FC (*)  |                  | CSX-750FB (*)           |  | CSX-750FJ (*)           |
|-----------------------------|----------------------|----------|--|------------------|-------------------------|--|-------------------------|
|                             |                      | STAND-BY |  |                  |                         |  |                         |
| Frequency Range             |                      |          | 1.8432~39.999MHz   | 40.000~75.000MHz | 1.8432~39.999MHz        |  | 40.000~80.000MHz        |
| Supply Voltage              |                      |          | Vdd: 5.0V±0.5V   |                  | Vdd: 3.3V±0.3V          |  |                         |
| Frequency Stability         | (*)                  |          | B: ±50ppm(-20°C ~ +70°C), C: ±100ppm(-20°C ~ +70°C)<br>E: ±50ppm(-40°C ~ +85°C), F: ±100ppm(-40°C ~ +85°C) |                  |                         |  |                         |
| Operating Temperature Range |                      |          | -20°C ~ +70°C / (-40°C ~ +85°C)  |                  |                         |  |                         |
| Storage Temperature Range   |                      |          | -55°C ~ +125°C   |                  |                         |  |                         |
| Current consumption         |                      |          | 25mA Max.  | 45mA Max.        | 15mA Max.               |  | 25mA Max.               |
| Duty                        | TTL level (1.4V)     |          | 40~60%   |                  |                         |  | —                       |
|                             | CMOS level (1/2 Vdd) |          |  |                  | 45~55%                  |  |                         |
| Output Voltage              | V <sub>OH</sub>      |          |  |                  | 0.9V <sub>dd</sub> Min. |  |                         |
|                             | V <sub>OL</sub>      |          | 0.4V Max.  |                  | 0.1V <sub>dd</sub> Max. |  |                         |
| Output Load                 | TTL                  |          | 10TTL Max.   |                  |                         |  | —                       |
|                             | CMOS                 |          | 50pF Max.  |                  | 30pF Max.               |  |                         |
| Rise and Fall Time          |                      |          | 8 nsec Max.  | 6 nsec Max.      | 8 nsec Max.             |  | 6 nsec Max.             |
| Start-up time               |                      |          | 4 msec Max.  | 10 msec Max.     | 4 msec Max.             |  | 10 msec Max.            |
| Input Voltage               | V <sub>IH</sub>      |          | 2.0V Min.  |                  |                         |  | 0.7V <sub>dd</sub> Min. |
|                             | V <sub>IL</sub>      |          | 0.8V Max.  |                  | 0.4V Max.               |  | 0.3V <sub>dd</sub> Max. |
| Disable current             |                      |          | 10mA Max.  | 20mA Max.        | 5mA Max.                |  | —                       |
| Stand-by current            |                      |          | —  |                  |                         |  | 10 μA Max.              |

## ■ PART NUMBERING SYSTEM



\*Please contact us for specifications available.

## ■ Part Marking [standard]



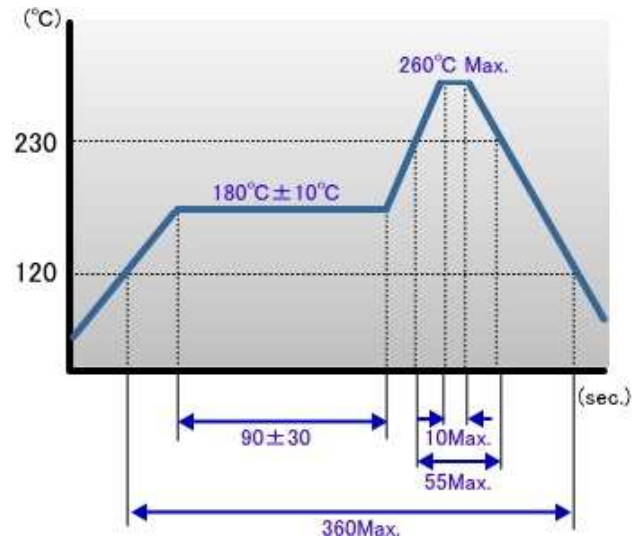
CTZ : Manufacture's ID Code

\* : Model

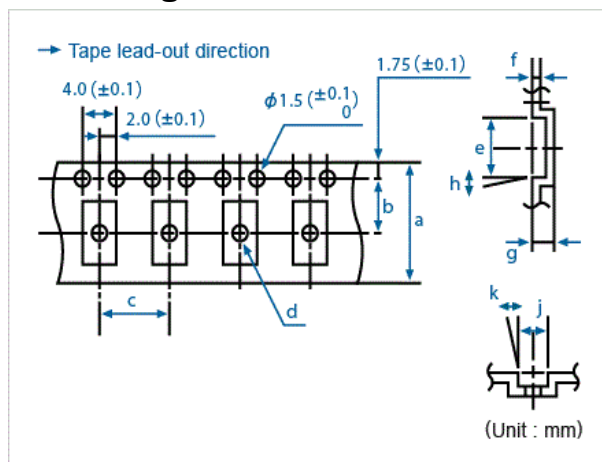
f : Frequency

# : Production Lot No.

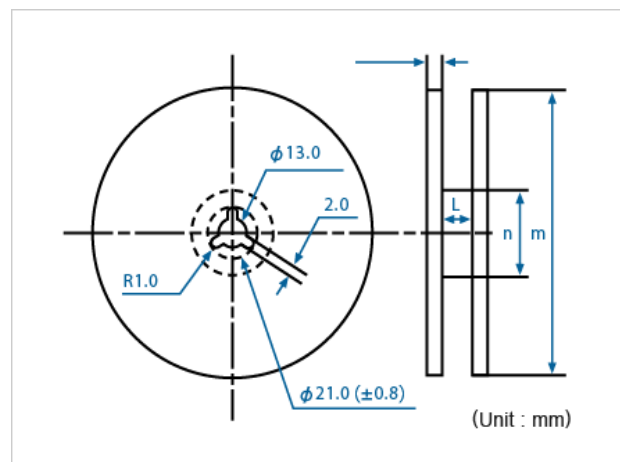
## ■ Reflow profile



## ■ 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) |
|-----------|------|-----|-----|-------|-----|-----|-----|----|-----|----|------|-------|-------|
| 1,000     | 16.0 | 7.5 | 8.0 | 1.5   | 7.4 | 0.3 | 1.9 | 5° | 5.4 | 5° | 16.0 | 180   | 62    |

Product specifications are subject to change without notice.

Rev.2

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