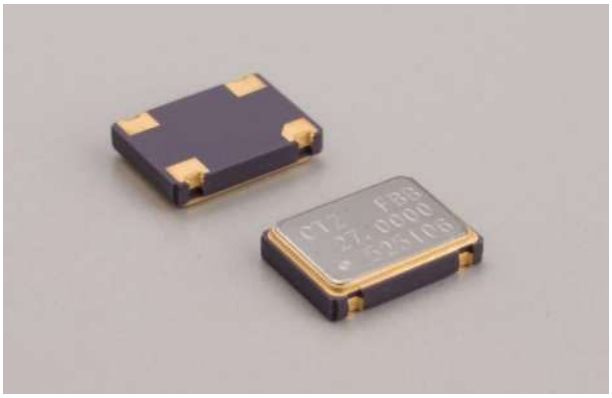
CITIZEN

CRYSTAL CLOCK OSCILLATORS (SMD · Ceramic Package)

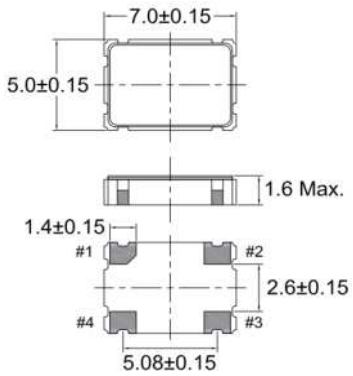
RoHS compliant | **CSX-750F** | **1,000pcs/reel**



■ FEATURES

- Frequency range : 1.8432 ～ 39.999MHz
- External dimensions (mm)
  L : 7.0 x W : 5.0 x H : 1.6
- Applications
  Consumer products

■ DIMENSION [mm]



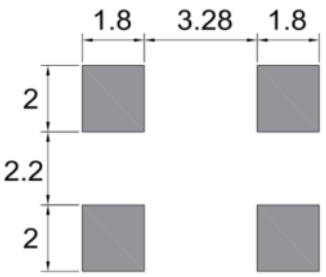
Pin Assignment

Terminal	Connection
#1	OE or Stand By
#2	GND
#3	OUTPUT
#4	Vdd

Function

#1 Input	#3 Output Condition
High	Oscillation out
Open	Oscillation out
Low	Oscillation stop

■ SOLDER PAD LAYOUT [mm]



■ STANDARD SPECIFICATIONS

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

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

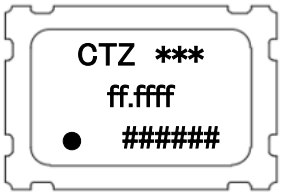
■ PART NUMBERING SYSTEM

CSX-750F C B 20000000 T - □□□

Model	Frequency Stability Operating Temp. Range		Frequency	Package specification		CITIZEN management code
Please specify the model by referring to STANDARD SPECIFICATIONS.	B	±50ppm (−20℃ ～ +70℃)	Please specify the frequency in Hz.	T	Only Tape & Reel	Ref. Code for internal use.
	C	±100ppm (−20℃ ～ +70℃)				
	E	±50ppm (−40℃ ～ +85℃)				
	F	±100ppm (−40℃ ～ +85℃)				

*Please contact us for specifications available.

■ Part Marking [standard]



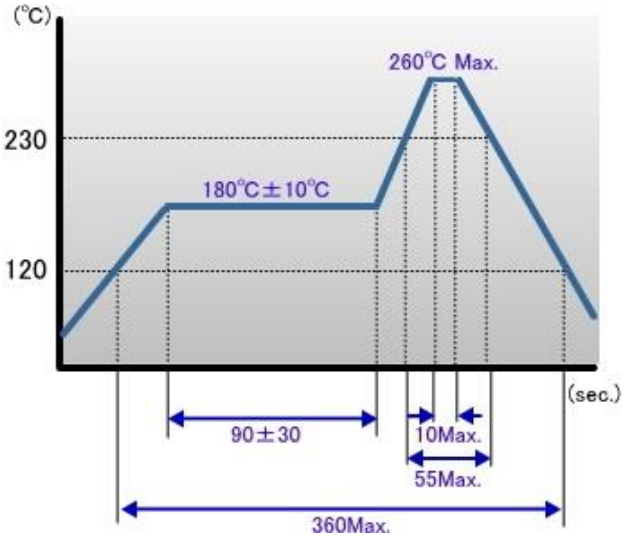
CTZ : Manufacture's ID Code

* : Model

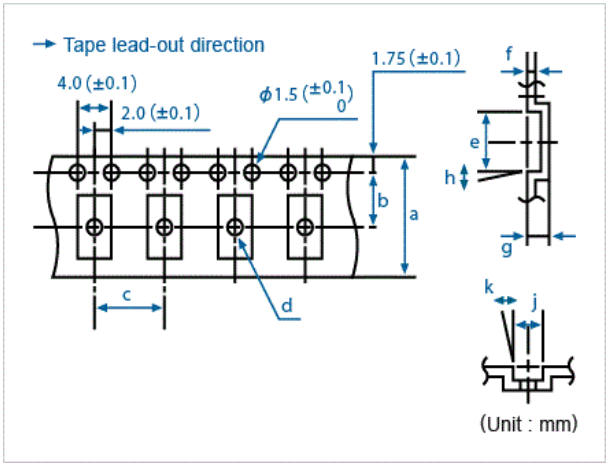
f : Frequency

: Production Lot No.

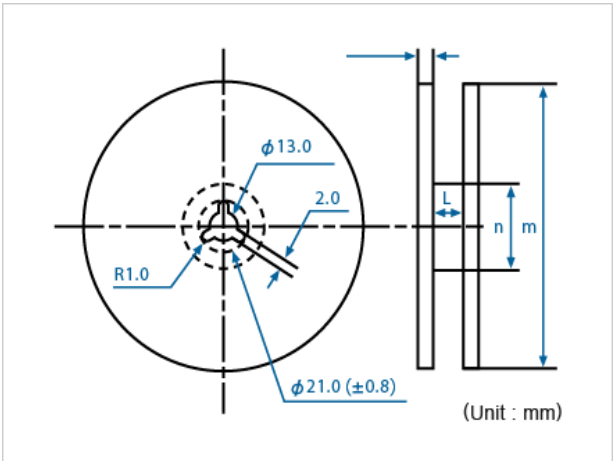
■ Reflow profile



■ 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.3