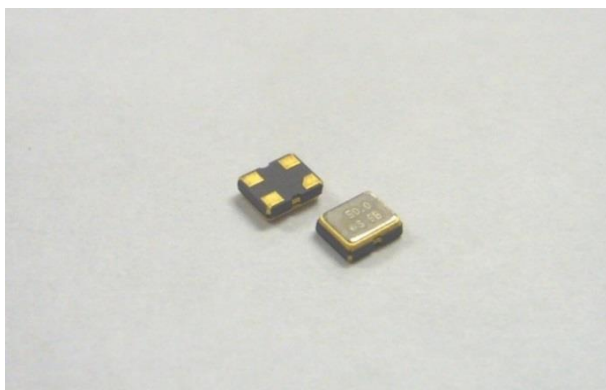


CRYSTAL CLOCK OSCILLATORS (SMD · Ceramic Package)

RoHS compliant / Pb free

CSX-252F

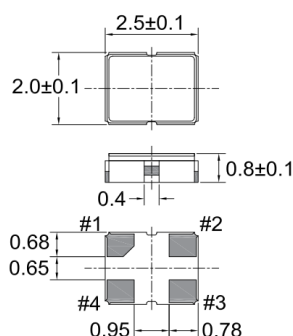
3,000pcs/reel



FEATURES

- Low current consumption type
- Frequency range : 32.768kHz, 2.0 ~ 39.9MHz
- External dimensions (mm)
L : 2.5 x W : 2.0 x H : 0.8
- Applications
Small mobile devices / Consumer products

DIMENSION [mm]



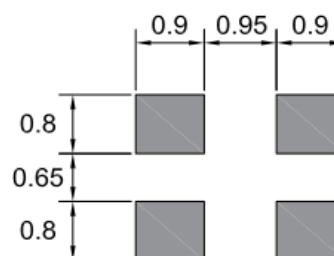
Pin Assignment

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

Function

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

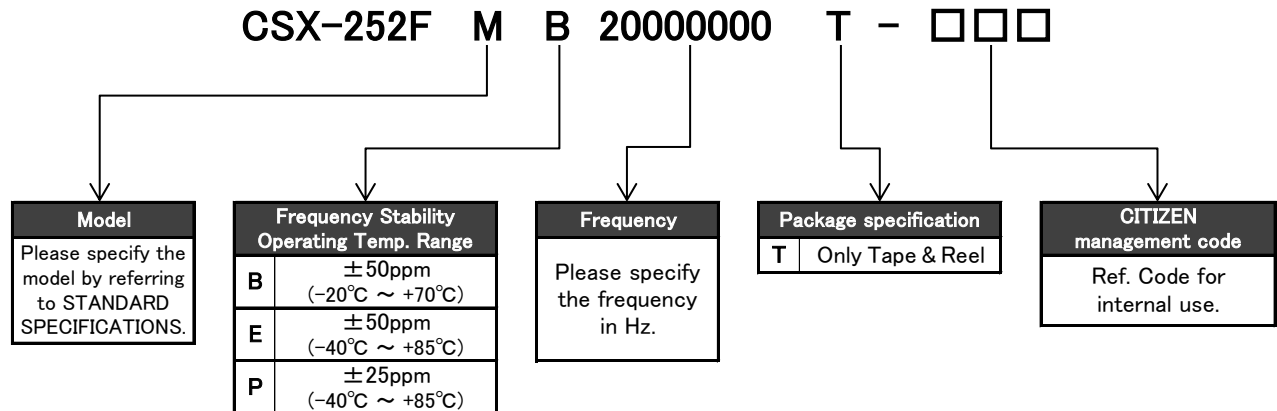
SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

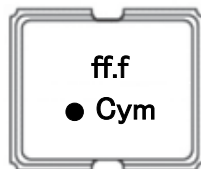
項目	型名	OE						
		STAND-BY	CSX-252FM(＊)	CSX-252FH(＊)	CSX-252FJ(＊)	CSX-252FA(＊)		
Frequency Range			32.768kHz, 2.000MHz ～ 39.999MHz					
Supply Voltage			1.8V±5%	2.5V±5%	3.3V±0.3V	1.8V ～ 3.3V		
Frequency Stability	(＊)		B: ±50ppm(−20℃ ～ +70℃), E: ±50ppm(−40℃ ～ +85℃) P: ±25ppm(−40℃ ～ +85℃) *32.768kHzのみ					
Operating Temperature Range			−20℃ ～ +70℃ / (−40℃ ～ +85℃)					
Storage Temperature Range			−45℃ ～ +90℃					
Current consumption			2.5mA Max: ～30MHz	4.5mA Max: ～19MHz	6mA Max: ～19MHz			
			3.0mA Max: ～39.999MHz	5.5mA Max: ～39.999MHz	7mA Max: ～39.999MHz			
Duty	TTL level (1.4V)		—					
	CMOS level (1/2 Vdd)		45% ～ 55%					
Output Voltage	V _{OH}		0.9Vdd Min.					
	V _{OL}		0.1Vdd Max.					
Output Load	TTL		—					
	CMOS		15pF Max.					
Rise and Fall Time CMOS (20%Vdd ⇔ 80%Vdd)			10nsec Max.					
Start-up time			10msec Max. (Time at minimum operating voltage to be 0sec.)					
Input Voltage (ST)	V _{IH}		0.7Vdd Min.					
	V _{IL}		0.2Vdd Max.					
Disable current			—					
Stand-by current			50 μ A Max.					

■ PART NUMBERING SYSTEM



*Please contact us for specifications available.

■ Part Marking [standard]



f : The first 4 digits of Frequency including the decimal point

C : Manufacture's ID Code

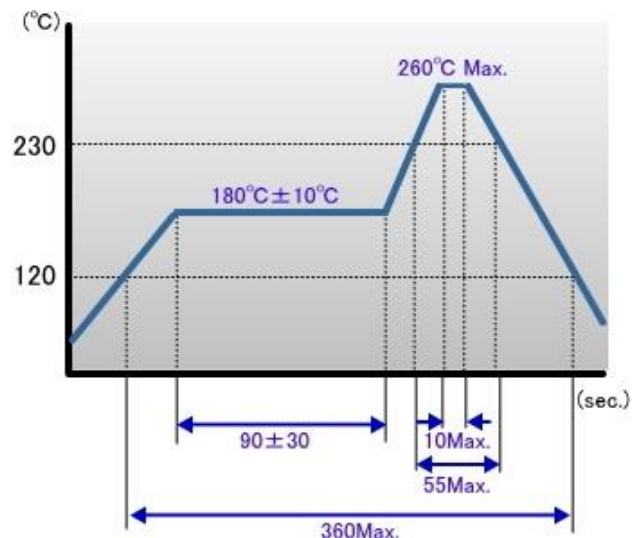
y : The last digit of production year

m : Production month (See Table.1)

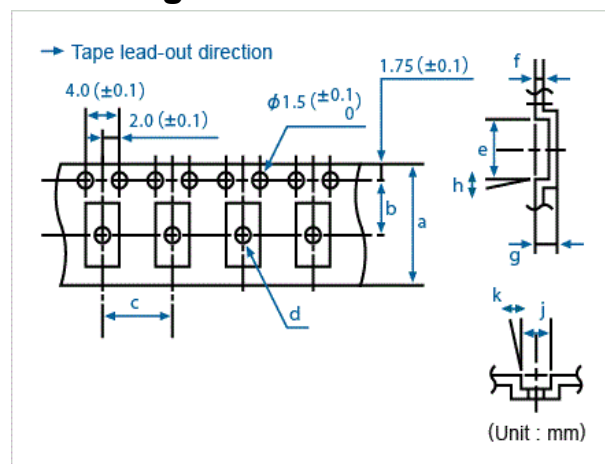
Table.1

Month	Jan	Feb	...	Aug	Sep	...	Dec
Code	A	B	...	H	J	...	M

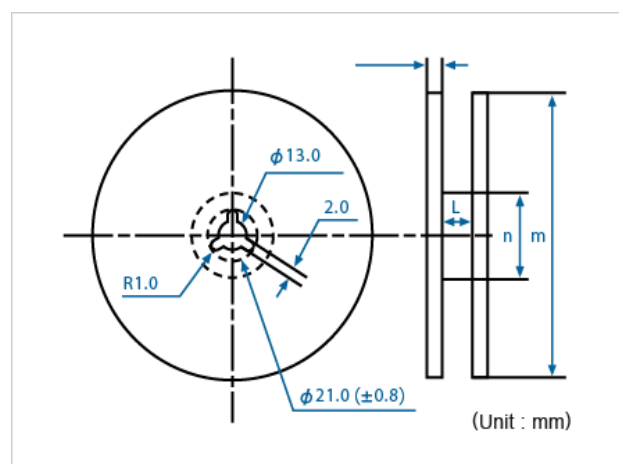
■ Reflow profile



■ 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	8.0	3.5	4.0	1.1	2.7	0.25	1.15	5°	2.25	5°	9.0	180	60

Product specifications are subject to change without notice.

Rev.3

Mouser Electronics

Authorized Distributor

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