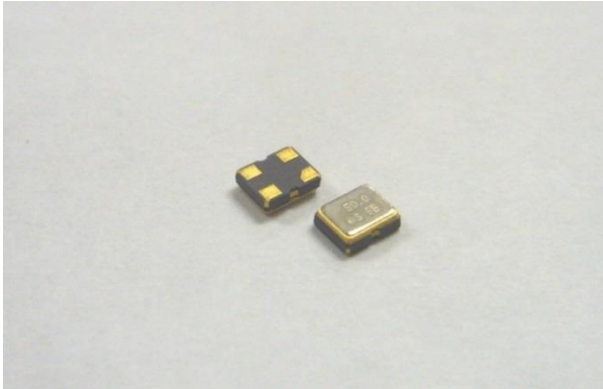


CRYSTAL CLOCK OSCILLATORS (SMD · Ceramic Package)

RoHS compliant / Pb free

CSX-252F

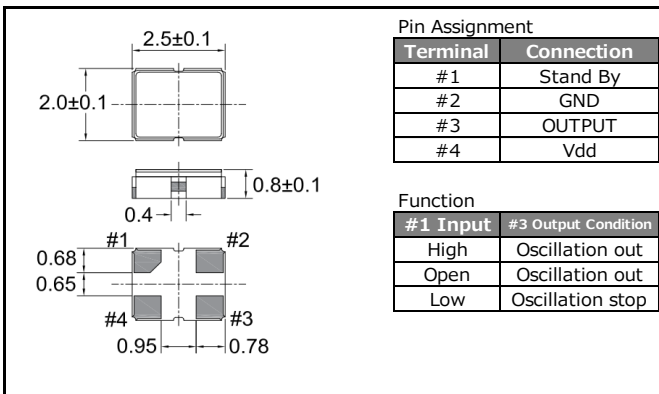
3,000pcs/reel



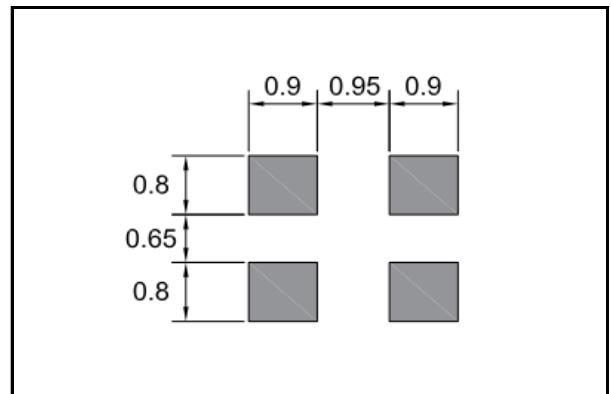
FEATURES

- 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]



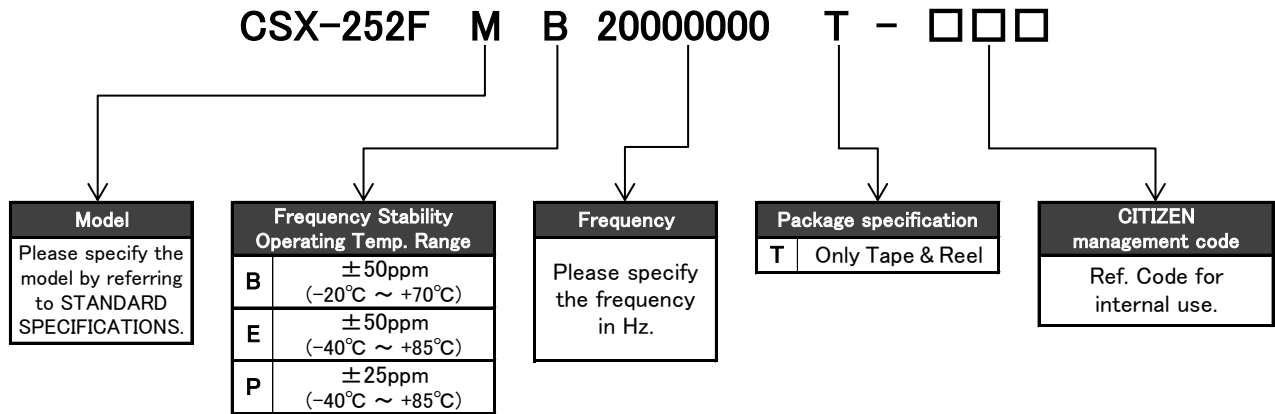
SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

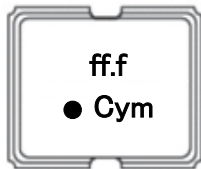
項目	型名	OE				
		STAND-BY	CSX-252FM(*)	CSX-252FH(*)	CSX-252FJ(*)	CSX-252FA(*)
Frequency Range			32.768kHz, 2.000MHz ~ 39.999MHz			
Supply Voltage			1.8V ± 5%	2.5V ± 5%	3.3V ± 0.3V	1.8V ~ 3.3V
Frequency Stability	(*)		B: ± 50ppm(-20°C ~ +70°C), E: ± 50ppm(-40°C ~ +85°C) P: ± 25ppm(-40°C ~ +85°C) *32.768kHz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

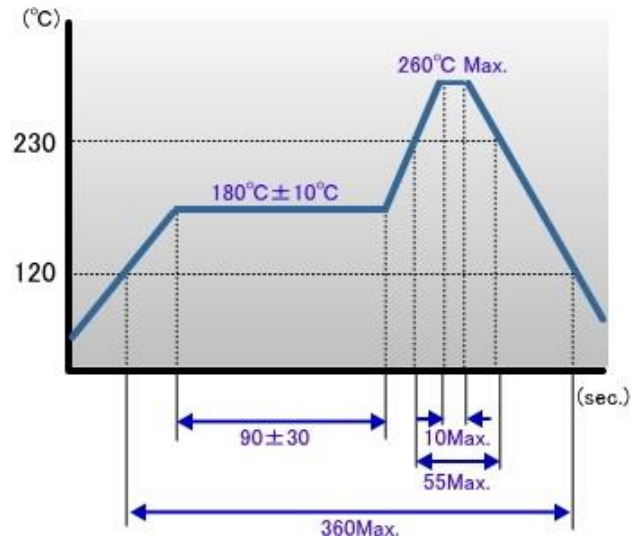
y : The last digit of production year

m : Production month (See Table.1)

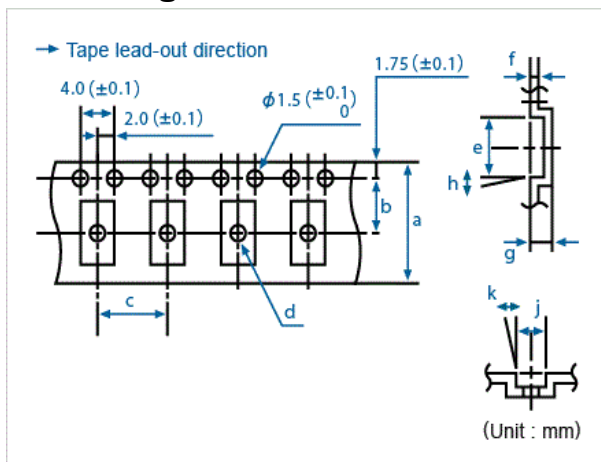
Table.1

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

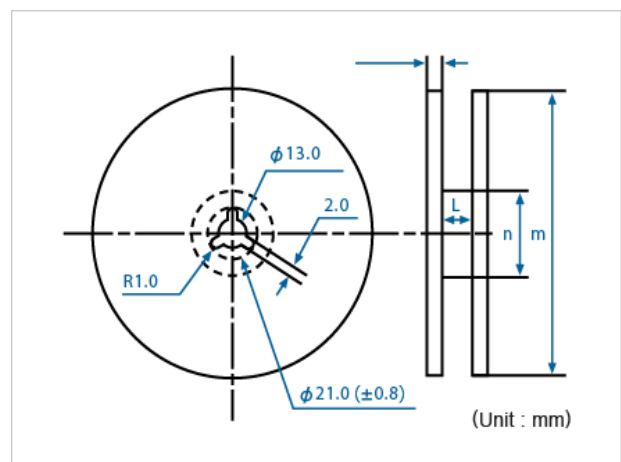
■ Reflow profile



■ 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