

CRYSTAL CLOCK OSCILLATORS (SMD • Ceramic Package)

RoHS compliant / Pb free

CSX-252F SERIES

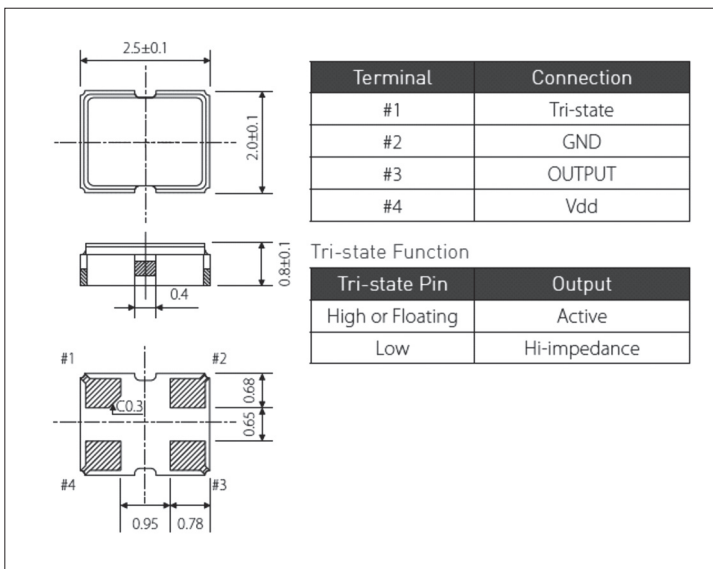
3,000pcs/reel



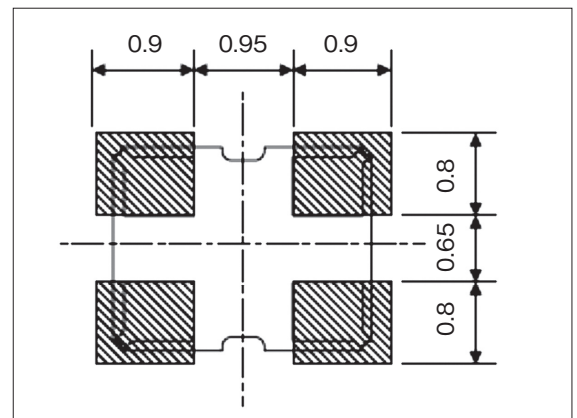
FEATURES

- Reflowable and high density mounting type small SMD package.
- Complete lead(Pb)-free product.
- Available for lead(Pb)-free soldering.
- Suitable for various applications such as PC, Communication equipment, AV equipment, OA equipment, Measuring instruments, etc.

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

Item	Model	OE				
		STAND-BY	CSX-252FM (*)	CSX-252FH (*)	CSX-252FJ (*)	CSX-252FA (*)
Frequency Range			32.768kHz, 2.000MHz ~ 60.000MHz			
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℃)			
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: ~40MHz	5.5mA max: ~40MHz	7mA max: ~40MHz	
			3.5mA max: ~60MHz	6.5mA max: ~60MHz	8mA max: ~60MHz	
Duty			TTL level (1.4V)	-		
			CMOS level (1/2 Vdd)	45% ~ 55%		
Output Voltage			V _{OH}	0.9V _{dd} Min.		
			V _{OL}	0.1V _{dd} Max.		
Output Load			TTL	-		
			CMOS	15pF Max.		
Rise and Fall Time CMOS (20%V _{dd} ⇄ 80%V _{dd})			10nsec Max.			
Start-up time			10msec Max. (Time at minimum operating voltage to be 0sec.)			
Input Voltage (ST)			V _{IH}	0.7V _{dd} Min.		
			V _{IL}	0.2V _{dd} Max.		
Disable current			-			
Stand-by current			50 μA Max.			