



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CRYSTAL CLOCK OSCILLATORS (SMD • Ceramic Package)

RoHS compliant / Pb free

CSX-252F SERIES

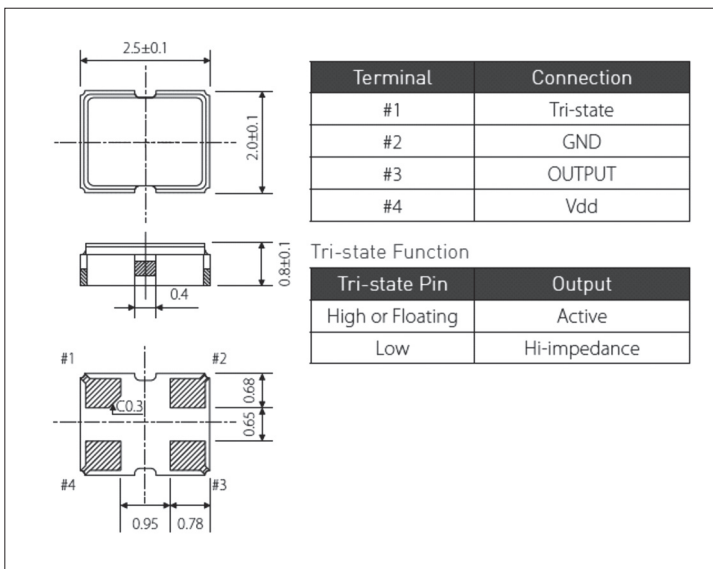
3,000pcs/reel



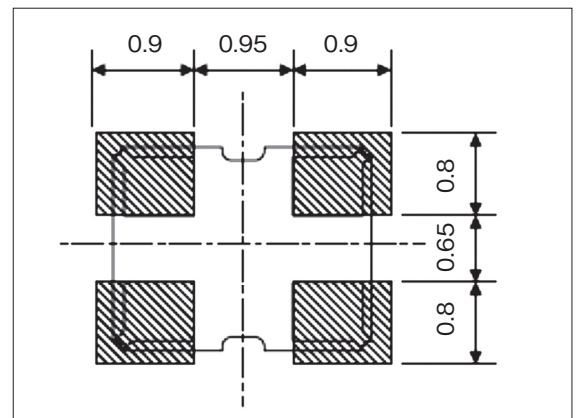
FEATURES

- 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	CSX-252FM (*)	CSX-252FH (*)	CSX-252FJ (*)	CSX-252FA (*)
		STAND-BY				
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°C ~ +70°C), E: ± 50ppm(-40°C ~ +85°C)			
Operating Temperature Range			-20°C ~ +70°C / (-40°C ~ +85°C)			
Storage Temperature Range			-45°C ~ +90°C			
Current consumption		TTL level (1.4V)	2.5mA max: ~ 30MHz	4.5mA max: ~ 19MHz	6mA max: ~ 19MHz	
		CMOS level (1/2 Vdd)	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.			