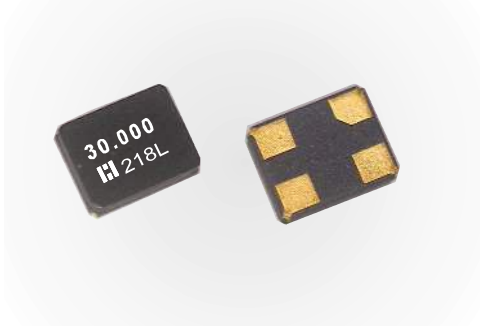


## • E3FB Series

## 3225 Glass Sealing Crystal



### FEATURES

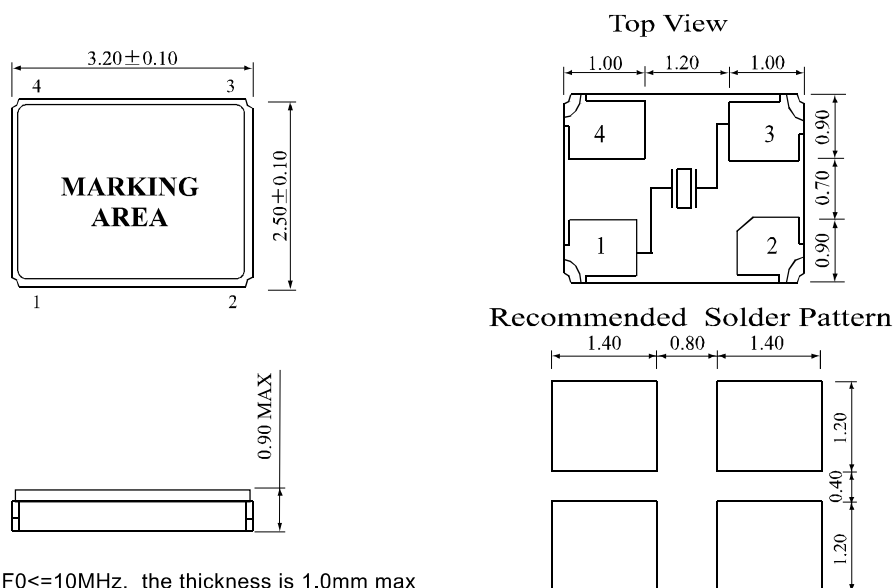
- Compact and thin (3.2X2.5X0.90)
- Common solution for non-RF applications with limited design space such wireless controller devices and other portable consumer products
- ROHS compliant

## Electrical Specifications

Item	Type	E3FB			
		8.0~9.999MHz	10 to 19.999MHz	20 to 23.999MHz	24 to 64.000MHz
Frequency Range	F0	8.0~9.999MHz	10 to 19.999MHz	20 to 23.999MHz	24 to 64.000MHz
Mode of Vibration		Fundamental			
Load Capacitance	CL	6 to 20pF			
Frequency Tolerance	$\Delta F/F0$	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}$ (At 25°C)			
Equivalent Series Resistance	ESR	500 $\Omega$ max.	200 $\Omega$ max.	70 $\Omega$ max.	50 $\Omega$ max.
Temperature Stability	TC	$\pm 30\text{ppm}$ (Refer to 25°C)	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}$ (Refer to 25°C)		
Operating Temperature Range	T <sub>OPR</sub>	-20~+70°C, -30~+85°C Option			
Storage Temperature Range	T <sub>STG</sub>	-55~+125°C			
Shunt Capacitance	C0	3pF max.			
Insulator Resistance	IR	500M $\Omega$ min. (At 100VDC)			
Drive Level	DL	100 $\mu$ W (200 $\mu$ W max.)			
Aging	Fa	$\pm 2\text{ppm}$ max. (At 25°C, First year)			
Packing Unit		3000pcs/reel			

\*\*Please contact us for inquiries regarding other Specifications

## Mechanical Dimensions(mm)



Remark: F0 ≤ 10MHz, the thickness is 1.0mm max