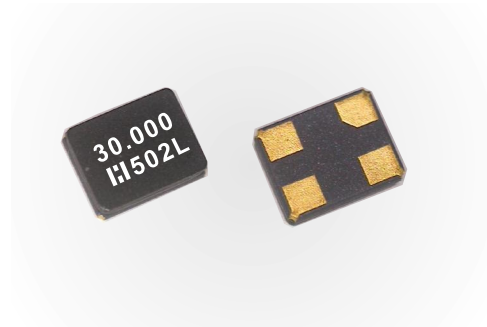


## • E3FB Series 3.2\*2.5 Glass Sealing Crystal



### FEATURES

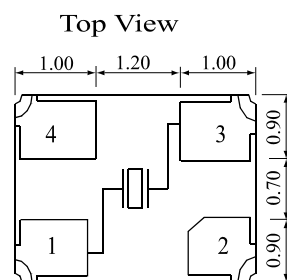
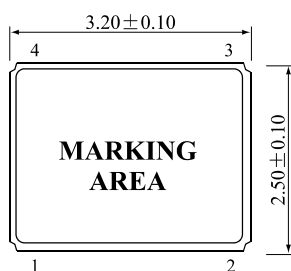
- Compact and thin (3.2X2.5X0.90mm max.)
- Common solution for non-RF applications with limited design space such wireless controller devices and other portable consumer products
- ROHS compliant

### Electrical Specifications

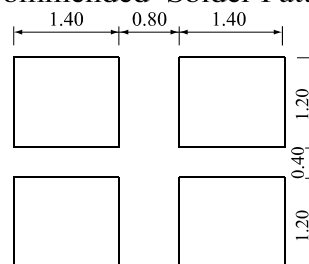
Item	Type	E3FB				
		10 to 11.999MHz	12 to 19.999MHz	20 to 23.999MHz	24 to 64.000MHz	64 to 115.000MHz
Frequency Range	F0	10 to 11.999MHz	12 to 19.999MHz	20 to 23.999MHz	24 to 64.000MHz	64 to 115.000MHz
Mode of Vibration		Fundamental				3RD
Load Capacitance	CL	6 to 20pF				
Frequency Tolerance	$\Delta F/F_0$	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}(\text{At } 25^\circ\text{C})$				
Equivalent Series Resistance	ESR	150 $\Omega$ max.	100 $\Omega$ max.	70 $\Omega$ max.	50 $\Omega$ max.	100 $\Omega$ max.
Temperature Stability	TC	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}(\text{Refer to } 25^\circ\text{C})$				
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)



### Recommended Solder Pattern



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Specifications are subject to change without notice