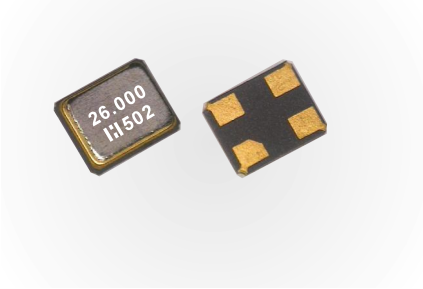


## • E1SB Series 2.0\*1.6 Seam Sealing Crystal



### FEATURES

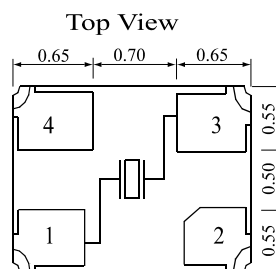
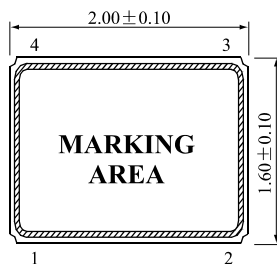
- Very compact and thin (2.0\*1.6\*0.5mm max.)
- Frequency range of 16 to 62.5M with Fund
- Ideal for smartphone applications with limited design space, miniaturized wireless module devices, RFID application, and other consumer based products
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder

### Electrical Specifications

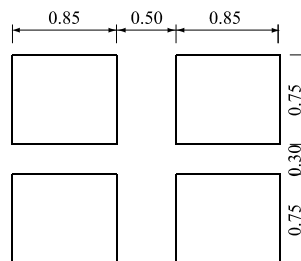
Item	Type	E1SB			
		16 to 18.999MHz	19 to 24.999MHz	25 to 29.999MHz	30 to 62.500MHz
Frequency Range	F0	16 to 18.999MHz	19 to 24.999MHz	25 to 29.999MHz	30 to 62.500MHz
Mode of Vibration		Fundamental			
Load Capacitance	CL	8 to 16pF			
Frequency Tolerance	$\Delta F/F_0$	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}(\text{At } 25^\circ\text{C})$			
Equivalent Series Resistance	ESR	200 $\Omega$ max.	100 $\Omega$ max.	80 $\Omega$ max.	60 $\Omega$ 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	50 $\mu$ W(100 $\mu$ 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