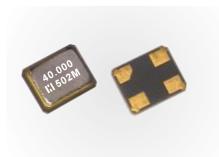


# SMD CRYSTAL UNITS



## • E2SB Series 2.5\*2.0 Seam Sealing Crystal



#### **FEATURES**

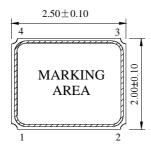
- Very Compact and thin (2.5\*2.0\*0.65mm max.)
- Frequency range of 12M to 62.5M with Fund
- Excellent electrical performance, ideal for OA (office automation), AV (audiovisual), Bluetooth and Wireless LAN applications
- Excellent heat resistance and shock resistance
- Lead-free. Meets the requirements for re-flow profiling using lead -free solder

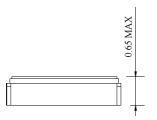
### **Electrical Specifications**

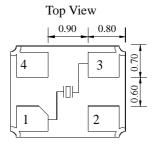
Item	Туре	E2SB			
Frequency Range	F0	12 to 15.999MHz	16 to 19.999MHz	20 to 25.999MHz	26 to 62.500MHz
Mode of Vibration		Fundamental			
Load Capacitance	CL	8 to 16pF			
Frequency Tolerance	△F/ F0	±10ppm,±15ppm,±30ppm(At 25°C)			
Equivalent Series Resistance	ESR	120Ω max.	100 Ω max.	80Ω max.	50 Ω max.
Temperature Stability	TC	$\pm 10$ ppm, $\pm 15$ ppm, $\pm 30$ ppm(Refer to 25°C)			
Operating Temperature Range	Topr	<b>-</b> 20~+70°C , <b>-</b> 30~+85°C Option			
Storage Temperature Range	Tstg	−55~+125°C			
Shunt Capacitance	C0	3pF max.			
Insulator Resistance	IR	500M Ω min. (At 100Vpc)			
Drive Level	DL	50μW <b>(</b> 100μW max.)			
Aging	Fa	±2ppm max. (At 25°C, First year)			
Packing Unit		3000pcs/reel			

<sup>\*\*</sup>Please contact us for inquiries regarding other Specifications

### **Mechanical Dimensions(mm)**







#### Recommended Solder Pattern

