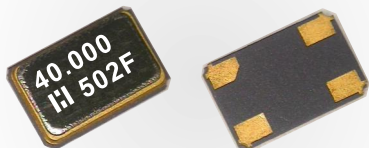




SMD CRYSTAL UNITS

• E5SB Series 5.0*3.2 Seam Sealing Crystal



FEATURES

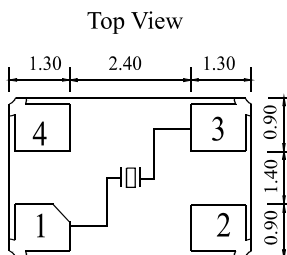
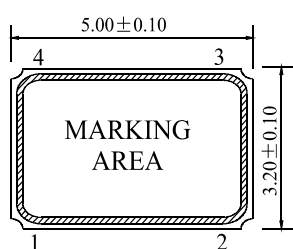
- Compact and thin (5.0X3.2X0.90mm max.)
- Prepared frequencies can meet most of bluetooth chipsets
- Networking design, wireless module devices, multimedia devices, and other portable consumer devices
- Excellent heat resistance and shock resistance.
- Products that are lead-free. These can meet the requirement of re-flow profiling using lead-free solder

Electrical Specifications

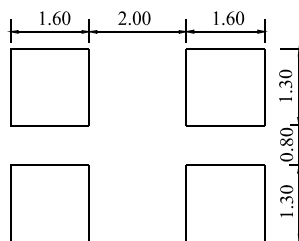
Item	Type	E5SB				
Frequency Range	F0	8 to 9.999MHz	10 to 11.999MHz	12 to 23.999MHz	24 to 54.000MHz	48 to 80.000MHz
Mode of Vibration		Fundamental				3 rd Overtone
Load Capacitance	CL	10pF to Series				
Frequency Tolerance	ΔF/F0	±10ppm, ±30ppm, ±50ppm (At 25°C)				
Equivalent Series Resistance	ESR	120 Ω max.	80 Ω max.	50 Ω max.	30 Ω max.	70 Ω max.
Temperature Stability	TC	±10ppm, ±30ppm, ±50ppm (Refer to 25°C)				
Operating Temperature Range	T _{OPR}	-20~+70°C, -30~+85°C Option				
Storage Temperature Range	T _{STG}	-55~+125°C				
Shunt Capacitance	C0	7pF max.				
Insulator Resistance	IR	500M Ω min. (At 100VDC)				
Drive Level	DL	100μW (300μW max.)				
Aging	Fa	±2ppm max. (At 25°C, First year)				
Packing Unit		1000pcs/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