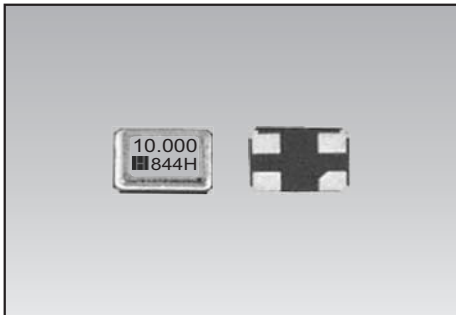


• HCX-5SB Series 5.0X3.2X0.8 mm

SMD crystal units



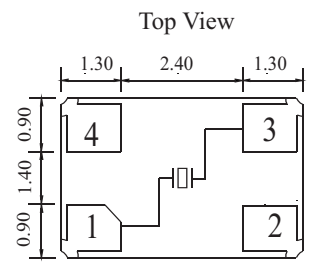
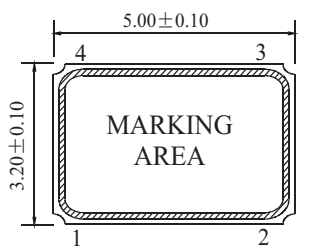
FEATURES

- Compact and thin (5.0X3.2X0.8mm typ.)
- Prepared frequencies can meet most of bluetooth chipsets
- 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	HCX-5SB			
		10 to 19.999MHz	20 to 29.999MHz	30 to 47.999MHz	48 to 80.000MHz
Frequency Range	Fo	10 to 19.999MHz	20 to 29.999MHz	30 to 47.999MHz	48 to 80.000MHz
Overtone Order		Fundamental			3 rd Overtone
Load Capacitance	CL	8pF to Series			
Frequency Tolerance	$\Delta F/F_0$	$\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ (At 25°C)			
Equivalent Series Resistance	ESR	80 Ω max.	70 Ω max.	50 Ω max.	70 Ω max.
Temperature Stability	Tc	$\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ (Refer to 25°C)			
Operating Temperature Range	TOPR	-20~+70°C, -30~+85°C Option			
Storage Temperature Range	TSTG	-40~+85°C			
Shunt Capacitance	Co	7pF max.			
Insulator Resistance	IR	500M Ω min. (At 100VDC)			
Drive Level	DL	100 μ W (300 μ W max.)			
Aging	Fa	$\pm 2\text{ppm}$ max. (At 25°C, Frist year)			
Packing Unit		1000pcs/reel			

Mechanical Dimensions(mm)



Recommended Solder Pattern

