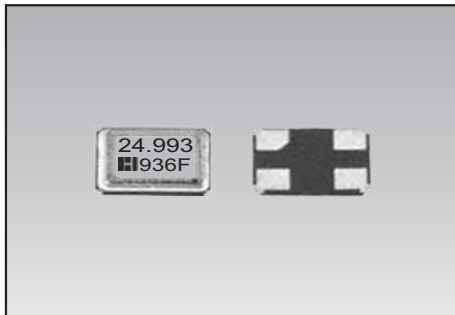




# SMD CRYSTAL UNITS



## • HCX-6SB Series 6.0X3.5X1.0 mm



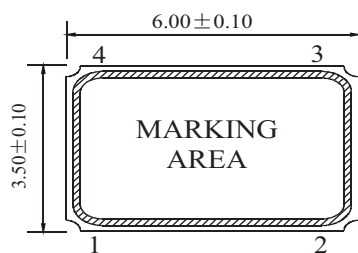
### FEATURES

- 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

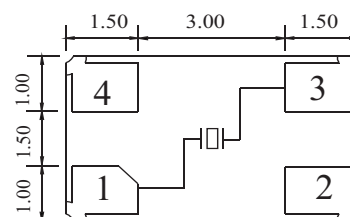
## Electrical Specifications

Item	Type	HCX-6SB				
Frequency Range	Fo	8 to 9.999MHz	10 to 11.999MHz	12 to 15.999MHz	16 to 39.999MHz	40 to 80.000MHz
Overtone Order		Fundamental				3 <sup>rd</sup> Overtone
Load Capacitance	C <sub>L</sub>	10pF to Series				
Frequency Tolerance	ΔF/ Fo	± 10ppm, ± 30ppm, ± 50ppm (At 25°C)				
Equivalent Series Resistance	ESR	100 Ω max.	80 Ω max.	60 Ω max.	40 Ω max.	70 Ω max.
Temperature Stability	T <sub>C</sub>	± 10ppm, ± 30ppm, ± 50ppm (Refer to 25°C)				
Operating Temperature Range	T <sub>OPR</sub>	-20~+70°C, -30~+85°C Option				
Storage Temperature Range	T <sub>STG</sub>	-40~+85°C				
Shunt Capacitance	C <sub>O</sub>	7pF max.				
Insulator Resistance	I <sub>R</sub>	500MΩ min. (At 100VDC)				
Drive Level	DL	100μW (300μW max.)				
Aging	Fa	± 2ppm max. (At 25°C, Frist year)				
Packing Unit		1000pcs/reel				

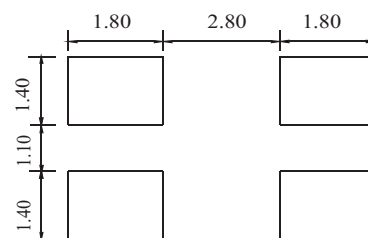
## Mechanical Dimensions(mm)



Top View



Recommended Solder Pattern



### TAIWAN:

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Specifications are subject to change without notice