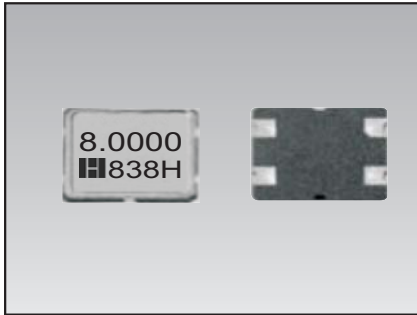




SMD CRYSTAL UNITS



•HCX-7SB Series 7.0X5.0X1.1 mm



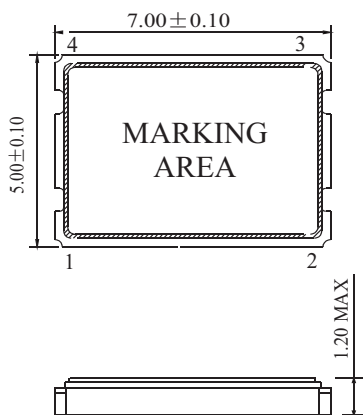
FEATURES

- 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

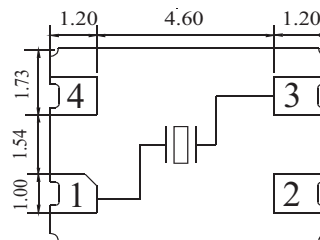
Electrical Specifications

Item	Type	HCX-7SB				
		6 to 7.999MHz	8 to 15.999MHz	16 to 39.999MHz	40 to 83.999MHz	84 to 100.000MHz
Frequency Range	Fo	6 to 7.999MHz	8 to 15.999MHz	16 to 39.999MHz	40 to 83.999MHz	84 to 100.000MHz
Overtone Order		Fundamental			3 rd Overtone	
Load Capacitance	CL	10pF to Series				
Frequency Tolerance	$\Delta F/Fo$	$\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ (At 25°C)				
Equivalent Series Resistance	ESR	100 Ω max.	60 Ω max.	40 Ω max.	70 Ω max.	60 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				

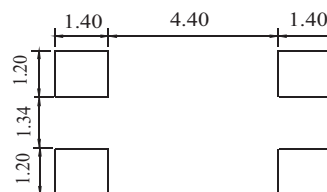
Mechanical Dimensions(mm)



Top View



Recommended Solder Pattern



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Specifications are subject to change without notice