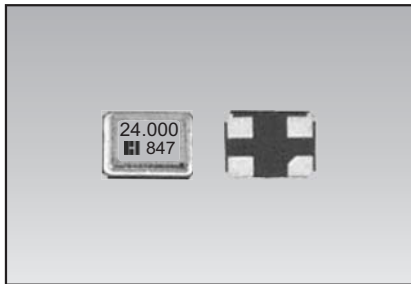




SMD CRYSTAL UNITS



•HCX-2SB Series 2.5X2.0X0.55 mm



FEATURES

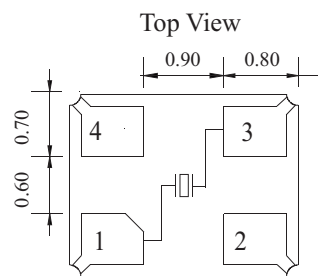
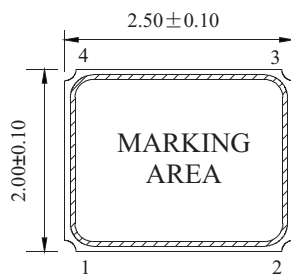
- Very Compact and thin (2.5X2.0X0.55mm typ.)
- Frequency range of 12M to 54M with Fund
- Mobilephone and Bluetooth application
- Excellent heat resistance and shock resistance.
- Products that are lead-free. These can meet the requirement of re-flow profiling using lead-free solder.

SMD Crystal units

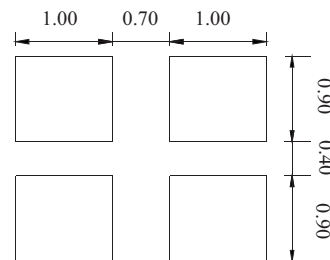
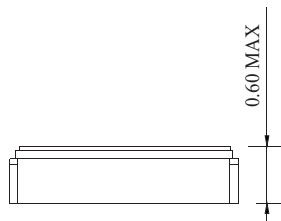
Electrical Specifications

Item	Type	HCX-2SB			
		12 to 15.999MHz	16 to 19.999MHz	20 to 29.999MHz	30 to 54.000MHz
Frequency Range	Fo	12 to 15.999MHz	16 to 19.999MHz	20 to 29.999MHz	30 to 54.000MHz
Overtone Order		Fundamental			
Load Capacitance	CL	8 to 16pF			
Frequency Tolerance	$\Delta F / F_o$	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}$ (At 25°C)			
Equivalent Series Resistance	ESR	120 Ω max.	100 Ω max.	80 Ω max.	50 Ω max.
Temperature Stability	Tc	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}$ (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	3pF max.			
Insulator Resistance	IR	500M Ω min. (At 100VDC)			
Drive Level	DL	50 μ W (100 μ W max.)			
Aging	Fa	$\pm 2\text{ppm}$ max. (At 25°C, Frist year)			
Packing Unit		3000pcs/reel			

Mechanical Dimensions(mm)



Recommended Solder Pattern



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Specifications are subject to change without notice