

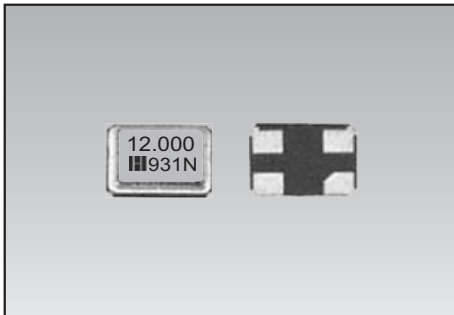


SMD CRYSTAL UNITS



• HCX-3SB Series 3.2X2.5X0.65 mm

SMD crystal units



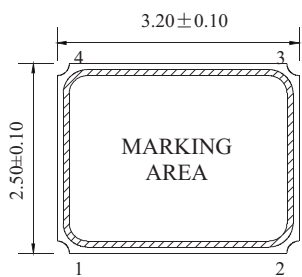
FEATURES

- Compact and thin (3.2X2.5X0.65mm typ.)
- Frequency range of 12M to 54M with Fund
- Suitable application include telecommunications equipment, Short-range radio link modules, DVC, DSC PDA and Mobilephone.
- Excellent heat resistance and shock resistance.
- Products that are lead-free. These can meet the requirement of re-flow profiling using lead-free solder

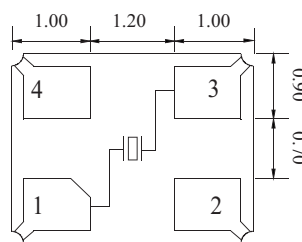
Electrical Specifications

Item	Type	HCX-3SB		
		12 to 19.999MHz	20 to 25.999MHz	26 to 54.000MHz
Frequency Range	Fo	12 to 19.999MHz	20 to 25.999MHz	26 to 54.000MHz
Overtone Order		Fundamental		
Load Capacitance	CL	6 to 20pF		
Frequency Tolerance	$\Delta F/Fo$	$\pm 10\text{ppm}, \pm 15\text{ppm}, \pm 30\text{ppm}$ (At 25°C)		
Equivalent Series Resistance	ESR	80 Ω max.	70 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		

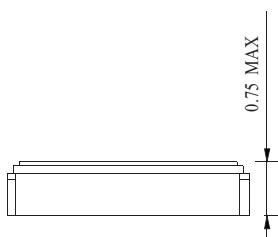
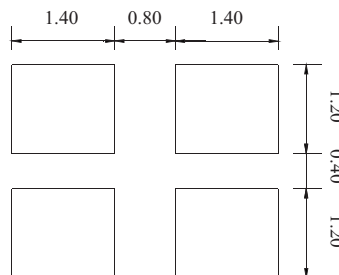
Mechanical Dimensions(mm)



Top View



Recommended Solder Pattern



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Specifications are subject to change without notice