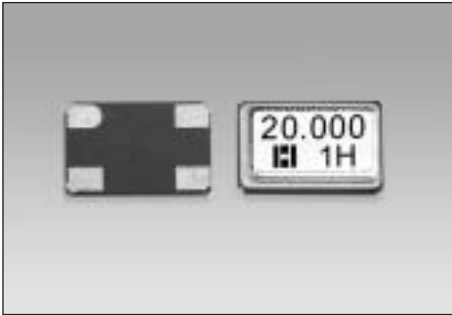




• HCX-5SB Series 5.0X3.2X0.8 mm



The 5SB crystal is an ultra miniature package with size of 5.0X3.2X0.8mm. With its ceramic base and metal cover it provides the durability and reliability necessary for strenuous process like infrared and vapor phase reflow. Excellent performance for application in wireless communication.

FEATURES

- Ultra-miniature size
- Industry Standard
- Wide Frequency Range
- Seam weld
- Emboss taping
- Reflow soldering

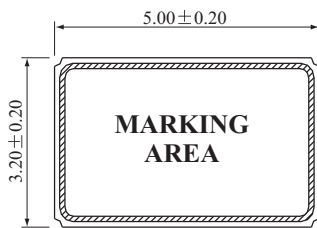
Electrical Specifications

Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	F ₀		12		48	MHz
Frequency Tolerance at 25°C	ΔF/F ₀		±10	±30	±50	ppm
Temperature Stability	T _c	25°C	±10	±30	±50	ppm
Operating Temperature Range	T _{OPR}		-10		+70	°C
Storage Temperature Range	T _{STG}		-40		+85	°C
Shunt Capacitance	C ₀				7	pF
Load Capacitance	C _L		8		Series	pF
Insulator Resistance	I _R	100V _{DC}	500			MΩ
Drive Level	D _L		10	100	300	μW
Aging(at 25°C)	F _a	AT 25°C,per year	-5.0		+5.0	ppm

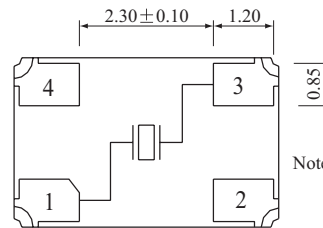
Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)

Frequency Range	Max ESR(Ω)	Mode
12.000MHz to 19.999MHz	100	Fundamental
20.000MHz to 29.999MHz	70	Fundamental
30.000MHz to 48.000MHz	50	Fundamental

Mechanical Dimensions(mm)

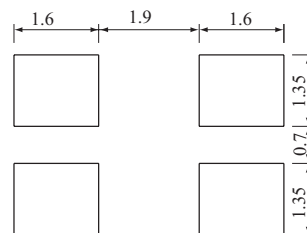


Top View



Note) Pin#2 and #4 are connected through cover, in case connected to GND, frequency might be drifted.

Recommended Solder Pattern



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Specifications are subject to change without notice