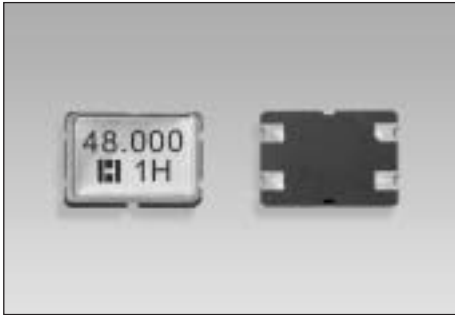


SURFACE MOUNT CRYSTAL

• HCX-7SB Series 7.0X5.0X1.1 mm



The HCX-7SB is a miniature SMD crystal with 7X5 ceramic package and height of a 1.1mm max. 8.000MHz to 100MHz frequency make it is widely applied in notebook computer, PCMCIA and communication equipment.

FEATURES

- Miniature size
- 1.1mm height
- Wide Frequency Range
- Seam sealing
- Emboss taping

Electrical Specifications

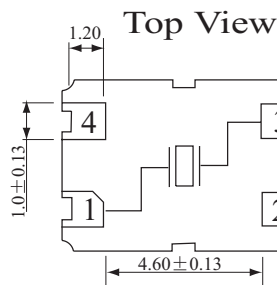
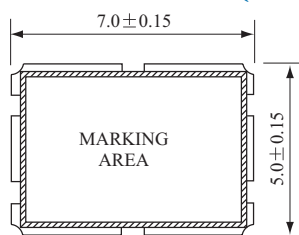
Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	F ₀		8.0000		100.000	MHz
Frequency Tolerance	ΔF/ F ₀	AT 25°C	± 10	± 30	± 50	ppm
Temperature Stability	T _c	REF TO 25°C	± 10	± 30	± 50	ppm
Operating Temperature Range	T _{OPR}		-10*		+60*	°C
Storage Temperature Range	T _{STG}		-40		+85	°C
Shunt Capacitance	C ₀				7	pF
Load Capacitance	C _L	Customer specified	10		Series	pF
Insulator Resistance	I _R	100V _{DC}	500			MΩ
Drive Level	D _L			100	300	μW
Aging	F _a	AT 25°C, per year	-5.0		+5.0	ppm

*Operating temperature range: -20°C to +70°C option

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

Frequency Range(MHz)	Max ESR(Ω)	Mode	Frequency Range(MHz)	Max ESR(Ω)	Mode
8.000MHz to 8.999MHz	100	Fundamental	12.000MHz to 15.999MHz	60	Fundamental
9.000MHz to 9.999MHz	90	Fundamental	16.000MHz to 39.999MHz	40	Fundamental
10.000MHz to 10.999MHz	80	Fundamental	40.000MHz to 83.999MHz	70	3 rd Overtone
11.000MHz to 11.999MHz	70	Fundamental	84.000MHz to 100.000MHz	60	3 rd Overtone

Mechanical Dimensions(mm)



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

Recommended Solder Pattern

