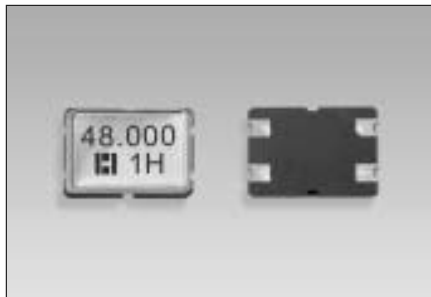




• HCX-7SB Series 7.0X5.0X1.1 mm



The HCX-7SB is a miniature SMD crystal with 7X5 ceramic package and height of a 1.1mm max. 9.8304MHz 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

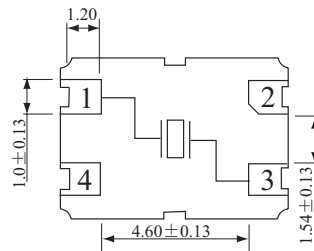
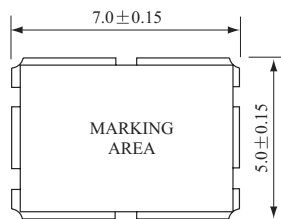
Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	Fo		9.8304		100.000	MHz
Frequency Tolerance	$\Delta F/Fo$	AT 25°C	± 10	± 30	± 50	ppm
Temperature Stability	TC	REF TO 25°C	± 10	± 30	± 50	ppm
Operating Temperature Range	TOPR		-10*		+60*	°C
Storage Temperature Range	TSTG		-40		+85	°C
Shunt Capacitance	Co				7	pF
Load Capacitance	CL	Customer specified	10		Series	pF
Insulator Resistance	IR	100V _{DC}	500			MΩ
Drive Level	DL			100	300	μW
Aging	Fa	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)

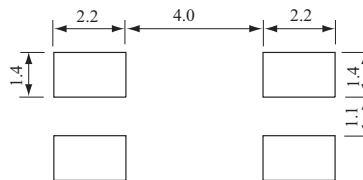
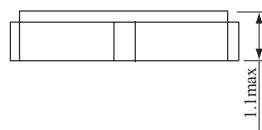
Frequency Range	Max ESR(Ω)	Mode
9.8304MHz to 15.999MHz	60	Fundamental
16.000MHz to 39.999MHz	40	Fundamental
40.000MHz to 83.999MHz	60	3 rd Overtone
84.000MHz to 100.000MHz	80	3 rd Overtone

Mechanical Dimensions(mm)



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

Recommended Solder Pattern



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Specifications are subject to change without notice