

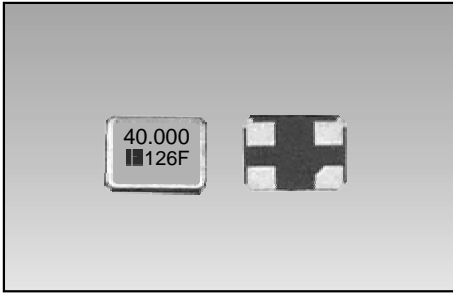


# CERAMIC SMD QUARTZ CRYSTAL



## • HCX-5SB Series

## 5.0X3.2X0.8 mm



### FEATURES

- Compact and thin (5.0X3.2X0.8mm typ.)
- Excellent heat resistance and shock resistance.
- Products that are lead-free. These can meet the requirement Of Re-flow soldering using lead-free solder

### Electrical Specifications

Item	Type	HCX-5SB					Note
		7 to 9.999MHz	10 to 11.999MHz	12 to 23.999MHz	24 to 60MHz	40 to 80.000MHz	
Frequency Range	F0	7 to 9.999MHz	10 to 11.999MHz	12 to 23.999MHz	24 to 60MHz	40 to 80.000MHz	
Mode of vibration		Fundamental				3 <sup>rd</sup> Overtone	
Load Capacitance	CL	8pF to Series					
Frequency Tolerance	ΔF/F0	±10ppm, ±30ppm Options(At 25°C)					See table1
Equivalent Series Resistance	ESR	120 Ω max.	80 Ω max.	50 Ω max.	30 Ω max.	90 Ω max.	
Temperature Stability	TC	±10ppm, ±30ppm Options(Refer to 25°C)					See table1
Operating Temperature Range	T <sub>OPR</sub>	-20~+70°C, -30~+85°C, -40~+85°C Options					See table2
Storage Temperature Range	T <sub>STG</sub>	-55~+125°C					
Shunt Capacitance	C0	7pF max.					
Insulator Resistance	IR	500M Ω min. (At 100VDC)					
Drive Level	DL	100μW(200μW max.)					
Aging	Fa	±2ppm max. (At 25°C, First year)					
Packing Unit		1000pcs/reel					

### Part Number Generation

Example: **E 5SB 40.0000 F 18 E 1 1**

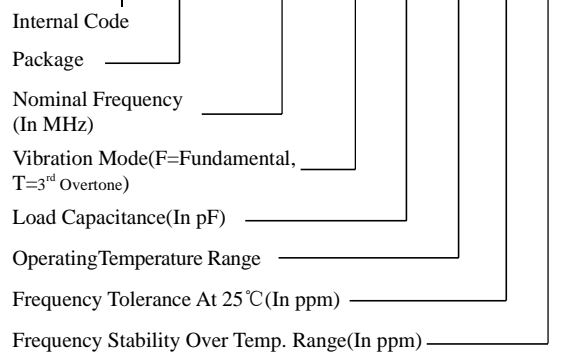


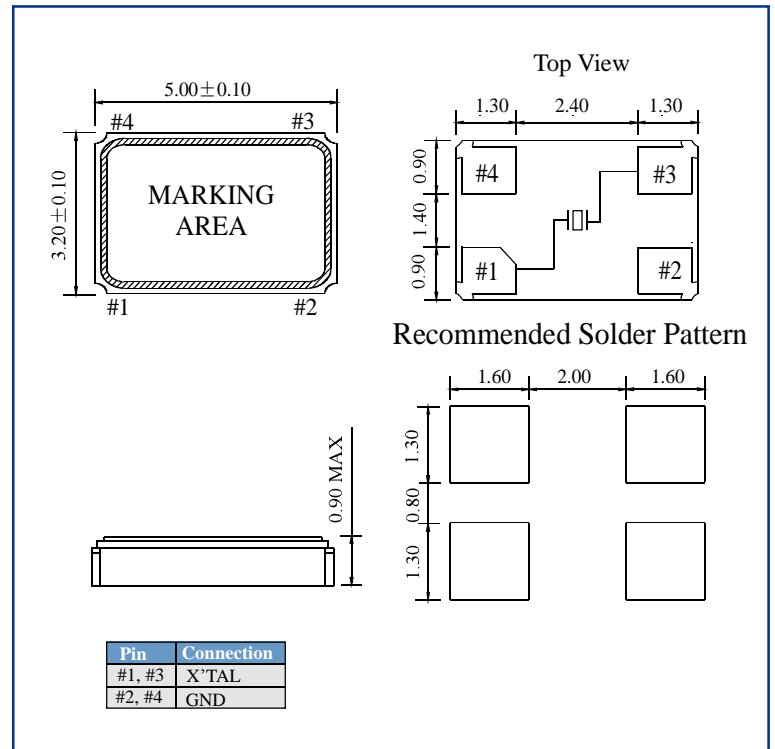
Table 1:

Frequency Tolerance
1= ±10ppm
Y= ±15ppm
2= ±20ppm
Z= ±25ppm
3= ±30ppm

Table 2:

Operating Temp.
E=-20°C to +70°C
G=-30°C to +85°C
M=-40°C to +85°C

### Mechanical Dimensions(mm)



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Specifications are subject to change without notice