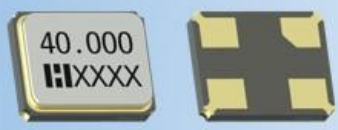
Hosonic

SMD Seam Sealing Crystals

E1SB Series 2.0×1.6×0.50mm



Features

- Small SMD package
- Excellent electrical performance such as frequency and resistance
- Excellent environmental reliability

Applications

- Wireless communication device
- SIP module
- Wearable product

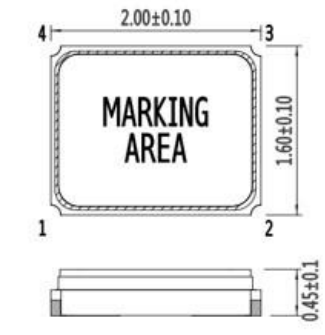
Electrical Specifications

Item	Symbol	Condition	E1SB
Frequency Range	f_{nom}	-	16 ~ 96MHz
Mode of Vibration	-	-	Fundamental
Load Capacitance	CL	-	6 ~ 16pF, or specify
Frequency Tolerance (at 25℃)	f_{tol}	-	±10ppm, or specify
Equivalent Series Resistance	ESR	16.0 ~ 18.9MHz	200Ω max.
		19.0 ~ 24.9MHz	100Ω max.
		25.0 ~ 29.9MHz	80Ω max.
		30.0 ~ 74.9MHz	60Ω max.
		75.0 ~ 96.0MHz	30Ω max.
Temperature Stability	f_{temp}	Refer to 25℃	±15ppm, or specify
Operating Temperature Range	T_{opr}	-	-30 ~ +85℃, or specify
Storage Temperature Range	T_{stg}	-	-40 ~ +85℃
Shunt Capacitance	C_0	-	2pF max.
Insulator Resistance (at DC 100V)	IR	-	500MΩ min.
Drive Level	DL	-	1 ~ 100μW (50μW typ.)
Aging (at 25℃)	Fa	-	±3ppm / year max.

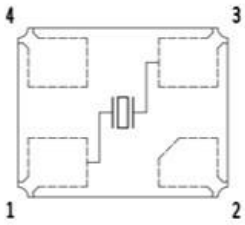
**Please contact us for inquiries regarding other Specifications.

Mechanical Dimensions

Unit: (mm)



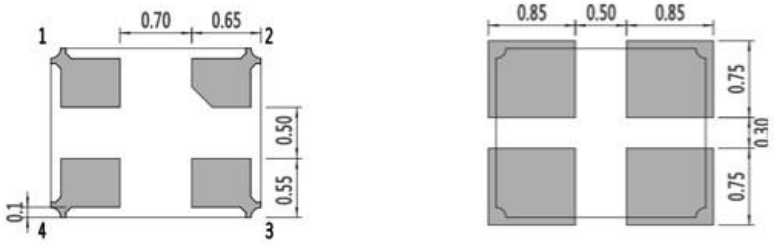
Pin Connection
(Top View)



Pin	Function
1, 3	Crystal
2, 4	GND

Note: #2 & #4 are connected to Lid.

Recommended PAD Layout



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