Hosonic

Temperature Sensing Crystals

T2SB Series 2.5×2.0×1.0mm



Features

- SMD package
- Crystal Unit with built-in Thermistor
- High precision and good stability of frequency performance

Applications

- Mobile communications
- GNSS

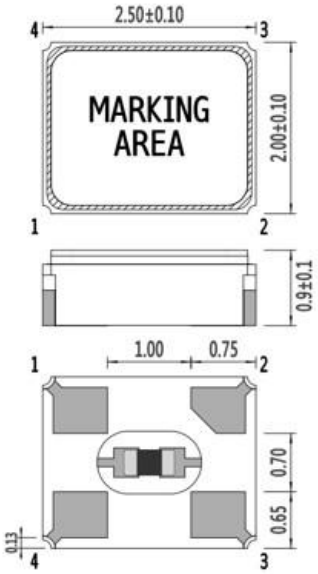
Electrical Specifications

Item	Symbol	Condition	T2SB
Frequency Range	f_{nom}	-	19.2 / 26.0MHz
Mode of Vibration	-	-	Fundamental
Load Capacitance	CL	-	7pF, 9pF or specify
Frequency Tolerance (At 25℃)	F_{tol}	-	±10 ppm, or specify
Equivalent Series Resistance	ESR	19.2MHz	80Ω max.
		26.0MHz	30Ω max. (50Ω max. option)
Temperature Stability	F_{temp}	Refer to 25℃	±12ppm, or specify
Operating Temperature Range	T_{opr}	-	-30 ~ +85℃, -30 ~ +105℃, or specify
Storage Temperature Range	T_{stg}	-	-40 ~ +105℃
Shunt Capacitance	C_0	-	2pF max.
Insulator Resistance (at DC 100V)	IR	-	500MΩ min.
Drive Level	DL	-	1 ~ 200μW (50μW typ.)
NTC-Thermistor Resistance (At 25℃)	-	-	100kΩ ± 1%
NTC-Thermistor B-Constant (25~50℃)	-	-	4250K ± 1%
Aging (At 25℃)	Fa	-	±1ppm /year max.

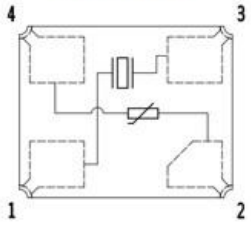
**Please contact us for inquiries regarding other Specifications.

Mechanical Dimensions

Unit: (mm)



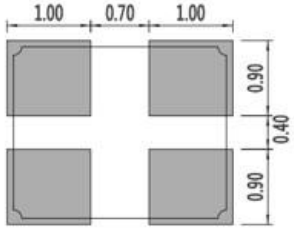
Pin Connection (Top View)



Pin	Function
1, 3	Crystal
2	Thermistor/GND
4	Thermistor

Note: #2 is connected to Lid.

Recommended PAD Layout



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