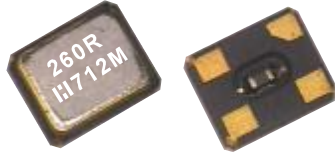




## • T2SB Series 2.5\*2.0 Seam Sealing Thermistor Crystal



### FEATURES

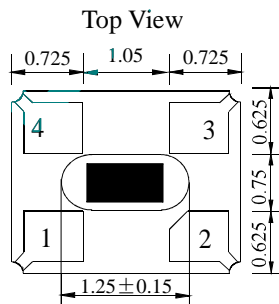
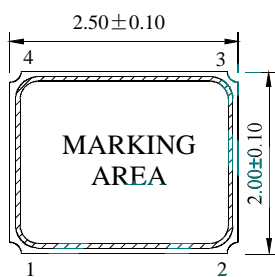
- Very Compact and thin (2.5\*2.0\*1.00mm max.)
- Crystal Units with Thermistor
- RF applications to replace VC-TCXO or TCXO product
- For Mobile Communications
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder

### Electrical Specifications

Item	Type	T2SB
Frequency Range	F0	19.2MHz/26MHz/38.4MHz/52MHz
Mode of Vibration		Fundamental
Load Capacitance	CL	7pF/9pF or specify
Frequency Tolerance	$\Delta F/F_0$	$\pm 10\text{ppm}$ (At 25°C)
Equivalent Series Resistance	ESR	80 $\Omega$ max. or specify
Temperature Stability	TC	$\pm 10\text{ppm}, \pm 20\text{ppm}$ Option(Refer to 25°C)
Operating Temperature Range	T <sub>OPR</sub>	-30~+85°C, -40~+105°C Option
Storage Temperature Range	T <sub>STG</sub>	-55~+125°C
Shunt Capacitance	C0	3pF max.
Insulator Resistance	IR	500M $\Omega$ min. (At 100VDC)
Drive Level	DL	50 $\mu$ W(100 $\mu$ W max.)
Aging	Fa	$\pm 2\text{ppm}$ max. (At 25°C, First year)
Packing Unit		3000pcs/reel

\*\*Please contact us for inquiries regarding other Specifications

### Mechanical Dimensions(mm)



### Block diagram

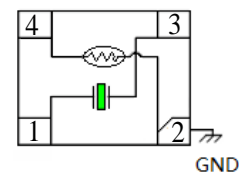


Table 1 NTC-Thermistor Specification

Resistance	100k $\Omega$ $\pm 1\%$ @ 25°C
B-Constant	4250k $\pm 1\%$ (25-50°C)

Table 2 PIN Connection

PIN	Connection
#1,#3	X'TAL
#2	Thermistor, GND, the metalLID
#4	Thermistor

### Recommended Solder Pattern

