

SMD CRYSTAL UNITS



• TTSB Series

1612 Seam Sealing Thermistor Crystal



FEATURES

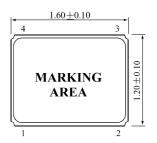
- Very Compact and thin (1.6*1.2*0.65mm)
- Crystal Units with Thermistor
- RF applications to replace VC-TCXO or TCXO product
- For Mobile Communications
- Lead-free. Meets the requirements for re-flow profiling using lead -free solder

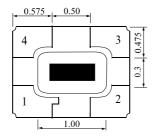
Electrical Specifications

Item	Туре	TTSB
Frequency Range	F0	38.4MHz/76.8MHz
Mode of Vibration		Fundamental
Load Capacitance	CL	7pF/8pF or specify
Frequency Tolerance	△F/ F0	±10ppm(At 25℃)
Equivalent Series Resistance	ESR	80Ω max. or specify
Temperature Stability	TC	\pm 10ppm, \pm 20ppm Option(Refer to 25 $^{\circ}$ C)
Operating Temperature Range	Topr	-30~+85°C, -40~+105°C Option
Storage Temperature Range	Tstg	−55~+125°C
Shunt Capacitance	C0	2pF max.
Insulator Resistance	IR	500M Ω min. (At 100VDC)
Drive Level	DL	50μW (100μW max.) or specify
Aging	Fa	±1ppm max. (At 25°C, First year)
Packing Unit		3000pcs/reel

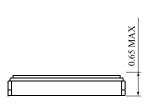
^{**}Please contact us for inquiries regarding other Specifications

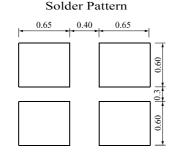
Mechanical Dimensions(mm)





Top View





Recommended

Block diagram

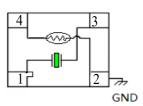


Table 1 NTC-Thermistor Specification

Resistance	100kΩ ±1% @25℃
B-Constant	4250k ±1%(25~50°C)

Table 2 PIN Connection

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