

# SMD Seam Temperature Sensing Crystals 2.5x2.0x1.0mm T22 Series



## Features

- High precision and high frequency stability;
- Excellent thermal coupling between thermistor and crystal;
- Application in mobile communications
- RoHS Compliant / Pb Free



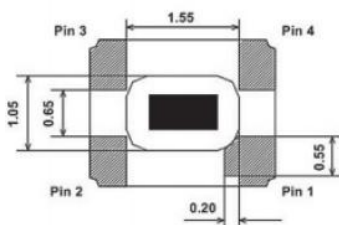
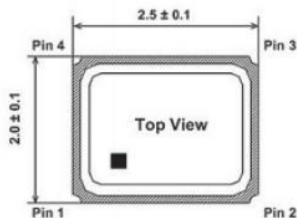
## Crystals specifications

ITEMS/TYPE	T22
Frequency Range	12~54MHz
Load Capacitance	12pF, or specify
Frequency Tolerance (at 25 °C)	±10 ppm, or specify
Frequency Stability Over Operating Temperature Range	±10 ppm, or specify
Operating Temperature Range	-40~+85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	1~200μW (50μW typical )
Aging (at 25 °C)	± 3 ppm / year Max.
Storage Temperature Range	-40~ + 85 °C
Thermistor Resistance (25°C)	100kΩ , or specify
Thermistor B-constant (25~50°C)	4250, or specify
Packing Unit	3,000pcs/Reel

## Equivalent Series Resistance(ESR)

Fundamental	
12~14MHz	150 Ω Max.
14~30MHz	100 Ω Max.
30~54MHz	60 Ω Max.

## Dimensions and patterns(unit:mm)



### PIN FUNCTION

	Symbol	Function
Pin 1	XT1	XTAL Terminal 1
Pin 2	RT2	Thermistor Terminal 2
Pin 3	XT2	XTAL Terminal 2
Pin 4	RT1	Thermistor Terminal 1

Note:  
Pin 2 is connected to the metal lid and thermistor  
Pin 4 is connected to the thermistor only

### SUGGESTED LAYOUT

