

SMD Seam Temperature Sensing Crystal 2.0x1.6x0.8mm T21 Series



Features

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



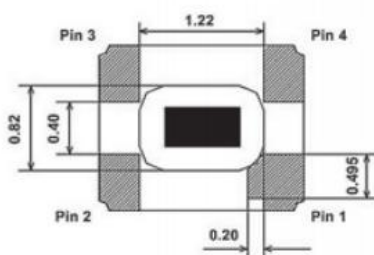
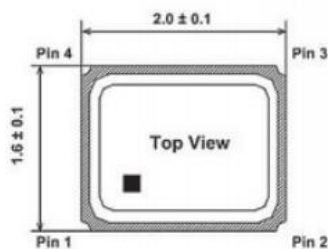
Crystals specifications

ITEMS/TYPE	T21
Frequency Range	19.2-54MHz
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	-30~+85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	1~200μW (50μW typical)
Aging (at 25 °C)	± 1 ppm / year Max.
Storage Temperature Range	-40~ + 105 °C
Thermistor Resistance (25°C)	100kΩ , or specify
Thermistor B-constant (25~50°C)	4250, or specify

Equivalent Series Resistance(ESR)

Frequency Range	Mode	ESR.	Frequency Range	Mode	ESR.
19.2~20MHz	FuAT,Fundl	80 Ω Max.	40~54MHz	FuAT,Fundl	30 Ω Max
20~40MHz	FuAT,Fundl	50 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

