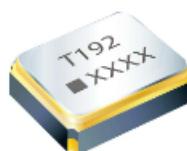


## Product Features

1. High precision and high frequency stability
2. Excellent thermal coupling between thermistor and crystal
3. Application in mobile communication
4. RoHS and REACH Compliant , Pb-free , Halogen-free
5. Industry Standard Package :  
1.22\*1.02\*0.55 mm (OV Series)

Application :

- Smart phone
- Modem
- GPS



Test condition

Ambient temperature :  $25 \pm 5^\circ\text{C}$

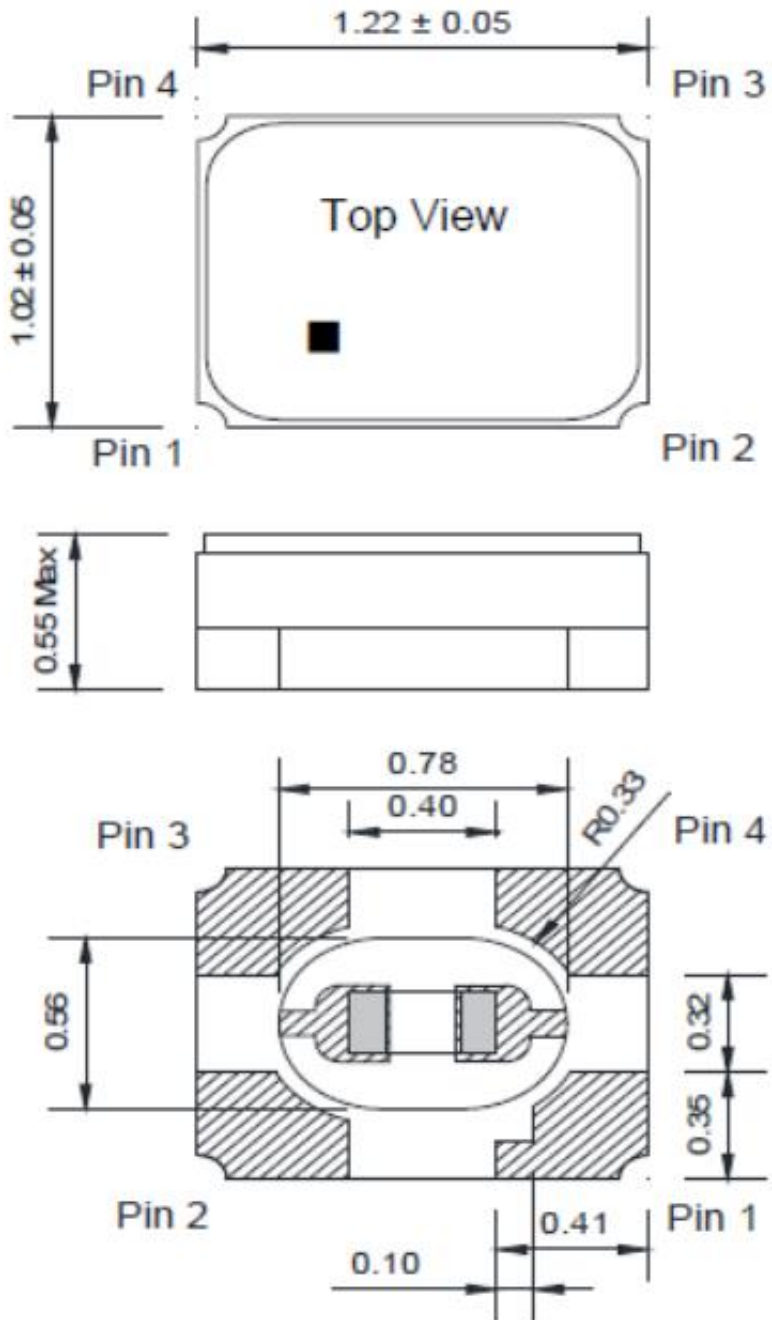
Relative humidity : 40% ~ 70%

### ● Table 1 . Electrical Specifications

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	76.8			MHz	
Frequency Tolerance @ $25^\circ\text{C} \pm 3^\circ\text{C}$	FT	-10 ~ +22			ppm	
Frequency Stability Over Operating Temp. Range (Reference $25^\circ\text{C}$ )	ST	$\pm 12$			ppm	@-30~85°C
Operating Temperature	Topr	-30	25	105	°C	
Load Capacitance	CL	7 , 8 or specify			pF	
Drive Level	DL	10	200	250	uW	
Equivalent Series Resistance	ESR	-	-	30	Ohm	
Aging	-	$\pm 0.7$			ppm	1st Year
Thermistor Resistance ( $25^\circ\text{C}$ )	-	$100\text{k} \pm 1\%$			Ohm	
B-Constant ( $25\text{-}50^\circ\text{C}$ )	-	$4250 \pm 1\%$			K	The B constant is calculated using the zero-power resistance values measured at $25^\circ\text{C}$ and $50^\circ\text{C}$

Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

■ DIMENSIONS (Unit : mm)



(Unit:mm)

Note: Tolerance: ±0.08mm (unless otherwise specified )

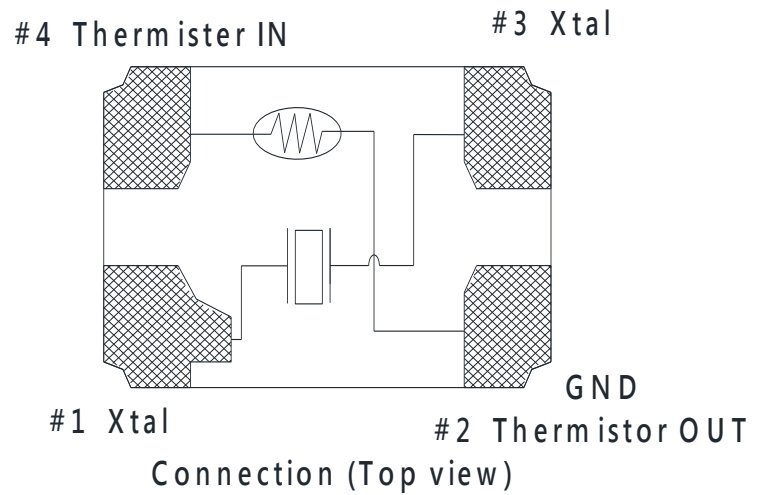
■ PIN FUNCTION

	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:

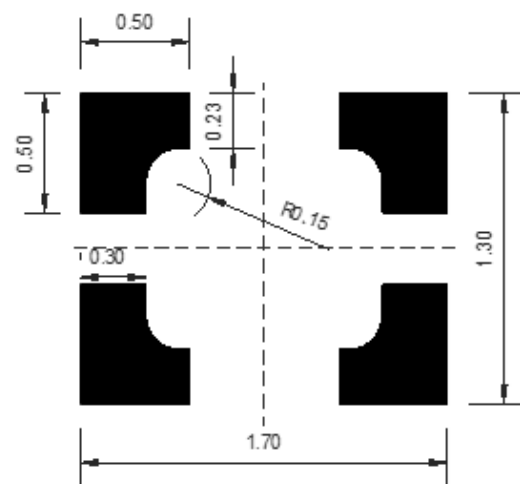
Pin 2 is connected to the metal lid and thermistor  
Pin 4 is connected to the thermistor only

■ BLOCK DIAGRAM



Note: RT2 shall be connected to GND is recommended

■ SUGGESTED LAYOUT



(Unit : mm)