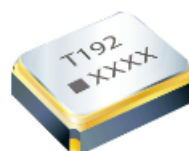


Product Features

1. High precision and high frequency stability
2. Excellent thermal coupling between thermistor and crystal
3. RoHS and REACH Compliant , Pb-free , Halogen-free
4. AEC-Q200 Compliant
5. Industry Standard Package :
2.05*1.65*0.65 mm (AF Series)

Application :

- Automotive Telematics BOX(T-BOX)
- Automotive 5G / 4G Modem (C-V2X)
- Automotive GPS
- Automotive UWB



Test condition

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

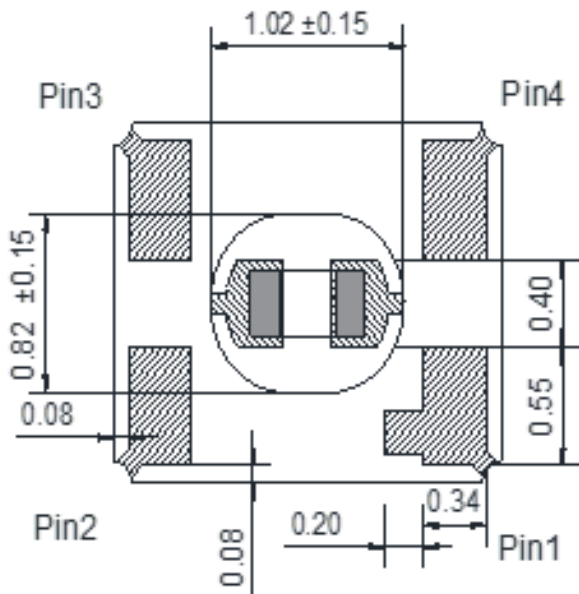
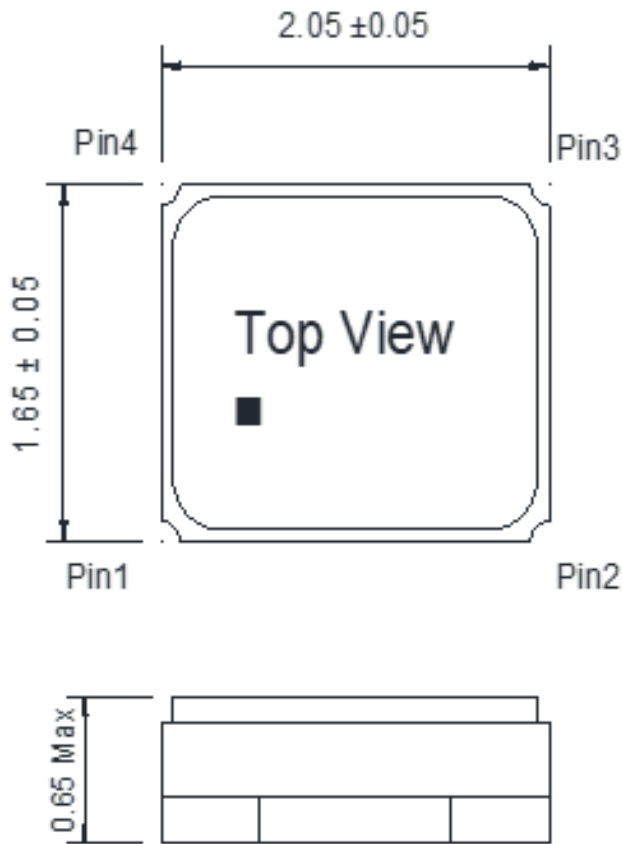
Relative humidity : 40% ~ 70%

● Table 1 . Electrical Specifications

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	19.2 , 26 , 38.4 , 55.2			MHz	
Frequency Tolerance	FT	± 10			ppm	@ $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
Frequency Stability Over Operating Temp. Range (Reference 25°C)	ST	± 12			ppm	@ $-30 \sim 85^{\circ}\text{C}$
		± 40				@ $-40 \sim 105^{\circ}\text{C}$
Operating Temperature	Topr	-40	25	105	$^{\circ}\text{C}$	
Load Capacitance	CL	7 , 8 or specify			pF	
Drive Level	DL	-	100	200	μW	
Equivalent Series Resistance	ESR	-	-	80	Ohm	19.2MHz
		-	-	50		26 、 38.4 、 55.2MHz
Aging	-	± 0.7			ppm	1st Year
Thermistor Resistance (25°C)	-	$100\text{k} \pm 1\%$			Ohm	
B-Constant ($25-50^{\circ}\text{C}$)	-	$4250 \pm 1\%$			K	The B constant is calculated using the zero-power resistance values measured at 25°C and 50°C

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

■ DIMENSIONS (Unit : mm)



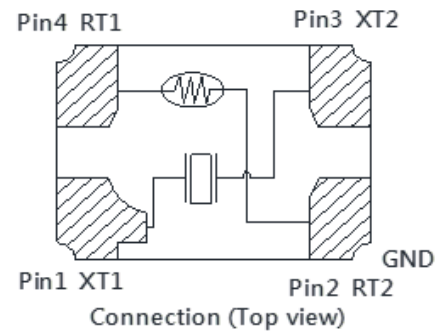
■ PIN FUNCTION

	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:

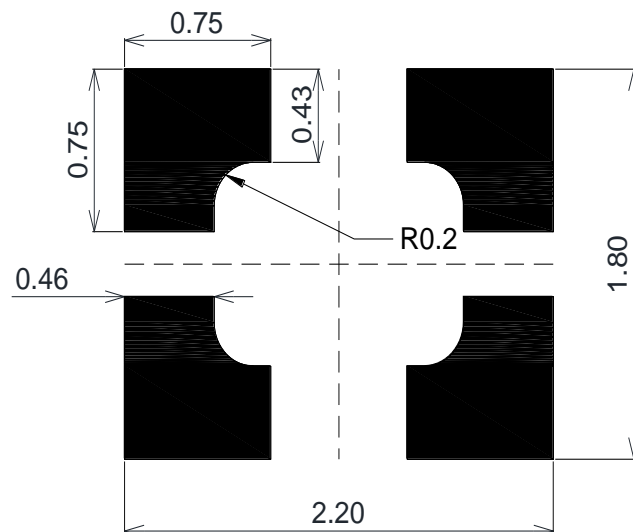
Pin 2 is connected to the metal lid and thermistor
Pin 4 is connected to the thermistor only

■ BLOCK DIAGRAM



Note: RT2 shall be connected to GND is recommended

■ SUGGESTED LAYOUT



(Unit : mm)