

## Product Features

1. 2 pads SMD glass sealed crystal
2. Reliable glass sealed ceramic package
3. Wide operating temperature range
4. Superior and reliable performance in harsh environment
5. AEC-Q200 Compliant
6. Contains Pb in sealing glass exempted by RoHS directive
7. Industry Standard Package :  
5.0\*3.2\*1.25 mm (AA Series)

### Application :

- Automotive Ethernet
- In-Vehicle Infotainment system
- Battery Management System , Body Control
- Instrument clusters
- Power steering , Breaking System , Engine Control



Test condition

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

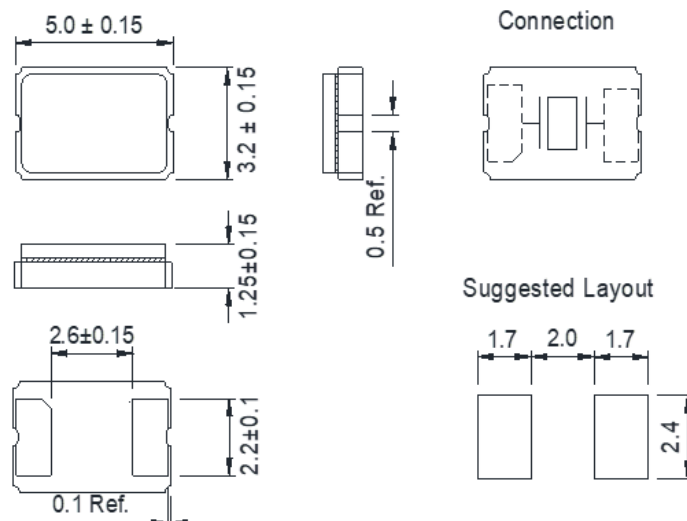
Relative humidity : 40% ~ 70%

### ● Table 1 . Electrical Specifications

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	7.2 ~ 48			MHz	
Frequency Tolerance	FT	$\pm 10$			ppm	@ $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
Frequency Stability Over Operating Temp. Range (Reference $25^{\circ}\text{C}$ )	ST	$\pm 15$			ppm	@ $-40 \sim 85^{\circ}\text{C}$
		$\pm 30$				@ $-40 \sim 105^{\circ}\text{C}$
		$\pm 50$				@ $-40 \sim 125^{\circ}\text{C}$
		$\pm 150$				@ $-40 \sim 150^{\circ}\text{C}$
Operating Temperature	Topr	-40	25	150	$^{\circ}\text{C}$	
Load Capacitance	CL	8 , 10 , 12 or specify			pF	
Drive Level	DL	-	100	300	uW	
Equivalent Series Resistance	ESR	-	-	150	Ohm	7.2~12MHz
		-	-	100		12~20MHz
		-	-	50		20~48MHz
Aging	-	$\pm 3$			ppm	1st Year
		$\pm 15$				15th Year

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

### ● Dimensions



(Unit : mm)