

## Product Features

1. 2 pads SMD glass sealed crystal
2. Wide operating temperature range
3. Superior and reliable performance in harsh environment
4. Excellent environment-resistant performance , including heat , vibration and shock resistance.
5. AEC-Q200 Compliant
6. Contains Pb in sealing glass exempted by RoHS directive
7. Industry Standard Package :  
3.2\*2.5\*0.9 mm (A3 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 :  $25 \pm 5^{\circ}\text{C}$

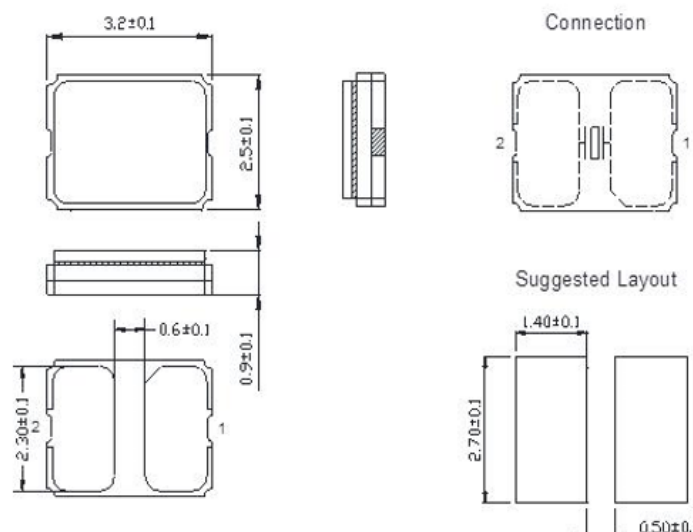
Relative humidity : 40% ~ 70%

### ● Table 1 . Electrical Specifications

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	8 ~ 40			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	$\mu\text{W}$	
Equivalent Series Resistance	ESR	-	-	300	Ohm	8~16MHz
		-	-	80		16~20MHz
		-	-	50		20~40MHz
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)