

## Product Features

1. Reliable seam sealed ceramic package
2. Wide operating temperature range
3. Superior performance and stringent reliability in harsh environment
4. AEC-Q200 Compliant
5. RoHS and REACH Compliant , Pb-free , Halogen-free
6. Industry Standard Package :  
2.05\*1.65\*0.5 mm (AY Series)

### Application :

- Automotive Wireless Communication
- In-Vehicle Infotainment system
- Camera , Radar , Lidar , TPMS , Smart Key
- Battery Management System , Body Control
- Power steering , Breaking System , Engine Control



Test condition

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

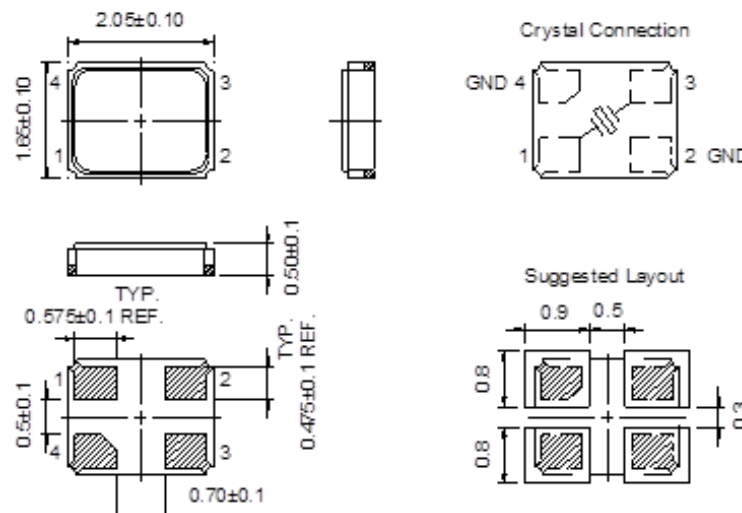
Relative humidity : 40% ~ 70%

### ● Table 1 . Electrical Specifications

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	16 ~ 60			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	@ $-40 \sim 85^\circ\text{C}$
		$\pm 30$				@ $-40 \sim 105^\circ\text{C}$
		$\pm 50$				@ $-40 \sim 125^\circ\text{C}$
Operating Temperature	Topr	-40	25	125	$^\circ\text{C}$	
Load Capacitance	CL	8 , 10 , 12 or specify			pF	
Drive Level	DL	-	100	200	$\mu\text{W}$	
Equivalent Series Resistance	ESR	-	-	180	Ohm	16~20MHz
		-	-	100		20~30MHz
		-	-	60		30~40MHz
		-	-	40		40~60MHz
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)

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