

### Applications

- Industrial Control Consumers.

### Features

- Dimensions: 11.5 x 4.50 x 3.68mm.
- Standard Frequency: 3.2768~32MHz

- Through hole type crystal units.
- A great number of standard frequencies.



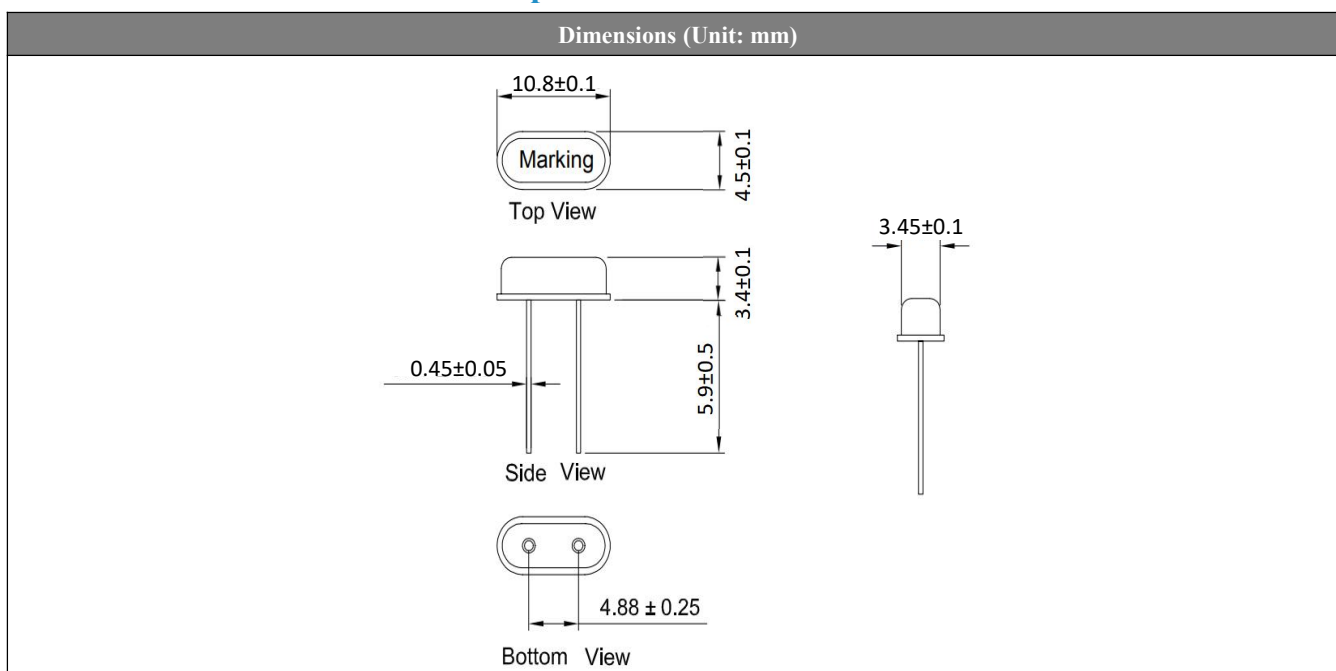
### Specifications (规格参数)

Item	Symbol	Specifications
Nominal Frequency Range (额定频率范围)	f_nom	3.2768~32MHz
Vibration Mode (震动模式)	-	AT Fundamental
Load Capacitance (负载电容)	CL	12pF, 20pF, or specify
Frequency Tolerance (频率偏差) (at 25°C)	f_tol	±10ppm, ±20ppm, or specify
Frequency Versus Temperature Characteristics (频率-温度特性)	f_tem	±20ppm, or specify
Operating Temperature (工作温度)	T_use	-20~+70°C, or specify
Storage Temperature (储存温度)	T_stg	-40~+85°C
Shunt Capacitance (静态电容)	C0	7pF Max
Level of Drive (激励电平)	DL	1~500μW Max. (100μW typical)
Aging (老化) (at 25°C)	f_age	±3ppm/year Max.

### Equivalent Series Resistance (等效串联电阻(ESR))

HC-49US			
3.2768 ~ 4MHz	180 Ω Max.	6 ~ 17MHz	80 Ω Max.
4 ~ 5MHz	120 Ω Max.	7 ~ 10MHz	60 Ω Max.
5 ~ 6 MHz	100 Ω Max.	10 ~ 32MHz	40 Ω Max.

### Dimensions and Recommended land pattern (外观尺寸及推荐焊盘)



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