

# Crystal Unit

## HC-49SMD



### Applications Features

- Industrial Control
- Dimensions: 11.4 x 4.5 x 3.8mm
- Surface Mount Type Crystal Units
- Standard Frequency: 3.2768 ~ 32MHz



### 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, -40~+85°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-49SMD			
3.2768 ~ 4MHz	180Ω Max	6 ~ 7MHz	80Ω Max
4 ~ 5MHz	120Ω Max	7 ~ 10MHz	60Ω Max
5 ~ 6MHz	100Ω Max	10 ~ 32MHz	40Ω Max

### Dimensions and Recommended Land Pattern (外观尺寸及推荐焊盘)

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
<p>Side View</p> <p>Bottom View</p>	

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