

Applications

- Industrial Control Consumers.

Features

- Dimensions: 11.5 x 4.5 x 3.6mm.
- 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)	C ₀	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)

Dimensions (Unit: mm)	
Top View	Side View
Bottom View	