

Crystal Unit

HC-49US DIP



Applications

- Industrial Control
- Consumer Electronics

Features

- Dimensions: 11.5 x 4.5 x 3.6mm
- Standard Frequency: 3.2768 ~ 32MHz

- Through Hole Type Crystal Unit



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-49US			
3.2768 ~ 4MHz	180Ω Max	6 ~ 7MHz	80Ω Max
4 ~ 5MHz	120Ω Max	7 ~ 10MHz	60Ω Max
5 ~ 6MHz	100Ω Max	11 ~ 27MHz	40Ω Max

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

Dimensions (Unit: mm)	
Top View: 11.5 Max, 4.5±0.2, Marking Side View: 3.6±0.3, 6.0±0.5, 0.45±0.05 Bottom View: 4.88 ± 0.25 Pin dimension: 3.5±0.5	