

HC-49USMD Crystal

FEATURE

- Resistance weld seal.
- A resistance weld completely sealed type.
- The tight frequency stability.
- Low cost.
- Versatile.
- Pb-free and RoHS/Green compliant.

APPLICATIONS

- Ideally suited designed for Set-Top Box/Multimedia, modems, clock/VCO multiplier, network adapter cards and remote control devices.

Electrical Specifications 电气参数

型号	Holder Type	HC - 49USM
频率范围	Frequency Range	3.200 to 100.000 MHz (See Notes 1)
调整频差	Frequency Tolerance (ΔF) (at 25°C)	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$
温度频差	Frequency Drift	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$ (See Notes 2)
工作温度范围	Operating Temperature Range	-20°C ~ +70°C / -40°C ~ +85°C
储存温度范围	Storage Temperature Range	-40°C ~ +85°C / -55°C ~ +125°C
老化	Aging (25°C)	$\pm 3\text{ppm}/\text{year}$ Maximum
静电容	Shunt Capacitance (C0)	7pF maximum
激励功率	Drive Level	100 μW Typical
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at D.C100V
负载电容	Load Capacitance (CL)	Suggested by customer

※Notes: For 3.0mm height, lowest frequency is 10 MHz.

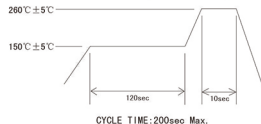
For 3.2mm & 3.5mm height, lowest frequency is 6 MHz.

※Notes 2: ± 10 , ± 20 , $\pm 30\text{ppm}$ (-20°C to +70°C)
 ± 20 , ± 30 , $\pm 50\text{ppm}$ (-40°C to +85°C) or depends on customer

Equivalent Series Resistance and Mode of Operation 等效阻抗和振荡模式

Frequency Range 频率范围	ESR (Ω) 等效阻抗	Mode 振荡模式
3.200 $\leq f <$ 3.579 MHz	250Max	基频 Fundamental
3.579 $\leq f <$ 4.000 MHz	150Max	Fundamental
4.000 $\leq f <$ 5.000 MHz	120Max	Fundamental
5.000 $\leq f <$ 6.000 MHz	100Max	Fundamental
6.000 $\leq f <$ 7.000 MHz	80Max	Fundamental
7.000 $\leq f <$ 10.000 MHz	60Max	Fundamental
10.000 $\leq f <$ 14.000 MHz	50Max	Fundamental
14.000 $\leq f <$ 20.000 MHz	40Max	Fundamental
20.000 $\leq f <$ 48.000 MHz	30/40 (BT cut) Max	Fundamental
35.000 $\leq f <$ 40.000 MHz	100Max	三次泛音 Third Overtone
40.000 $\leq f <$ 100.000 MHz	80Max	Third Overtone

Reflow Condition(回流焊条件)

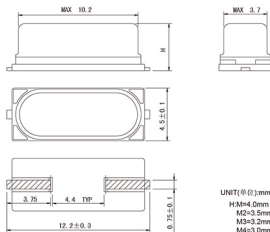


Pb Free

RoHS Compliant
Directive 2002/95/EC

Mechanical Dimensions 外型尺寸

Drawing For M



UNIT(单位): mm(毫米)
H:M=4.0mm MAX
M2=3.5mm MAX
M3=3.2mm MAX
M4=3.0mm MAX