

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/VCXO 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)	$\pm 3\text{ppm/ year}$ 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.

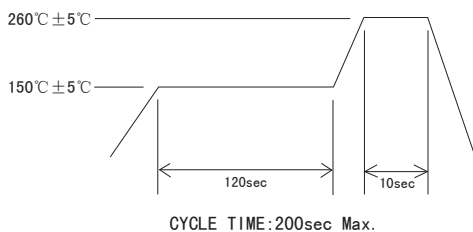
For 3.2mm & 3.5mm height, lowest frequency is 6 MHz.

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

