

# HC-49U Crystal

## Part Number Guide

T-M-FF.FFFM-LC-FTFS-OT-ESR-TR-S

T (Type 型号): U=HC-49U, 2 Leads with height of 13.2mm Max

U2=HC-49T, 2 Leads with height of 10.35mm Max

UB=HC-49U, 3 Leads with height of 13.2mm Max

UB2=HC-49T, 3 Leads with height of 10.35mm Max

M (Mode of Operation 振荡模式): F=Fundamental T=Third Overtone, etc

F (Frequency 标称频率): Normal - 5 digits of Frequency, e.g. 8.0000M, 12.000M

Special - All digits of Frequency, e.g. 13.225625M

LC (Load Capacitance 负载电容): 20-20pF 00-series, etc

FT (Frequency Tolerance 调整频差): 30: ±30 ppm, etc

FS (Frequency Stability 温度频差): 50: ±50 ppm, etc

OT (Operating Temperature 工作温度): 1050: -10°C to +60°C 4085: -40°C to +85°C, etc

ESR (Equivalent Series Resistance 等效阻抗)

TR (Tape and Reel 编带)

S (Special Requirement 特殊要求)



Pb Free

RoHS Compliant  
Directive 2002/95/EC

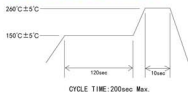
## Electrical Specifications 电气参数

型号	Holder Type	HC-49U
频率范围	Frequency Range	1.5360MHz to 100.00MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) ( $\pm 25^\circ C$ )	$\pm 10ppm$ to $\pm 100ppm$
温度频差	Frequency Stability	$\pm 10ppm$ to $\pm 100ppm$
工作温度范围	Operating Temperature Range	-10°C ~ +60°C to -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)	$\pm 5ppm$ /year Maximum
静电容	Shunt Capacitance (C0)	7pF Maximum
激励功率	Drive Level	100 $\mu$ W Typical
绝缘阻抗	Insulation Resistance (Ri)	500 Megaohms Minimum at D.C100V
负载电容	Load Capacitance (CL)	Suggested by customer

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

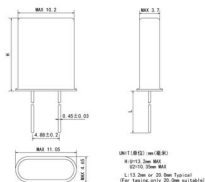
Frequency Range 频率范围	ESR (Ω) 等效阻抗	Mode 振荡模式
1.5360 - 2.0000MHz	500Max	Fundamental
2.0000 - 2.4560MHz	450Max	Fundamental
2.4560 - 3.0000MHz	350Max	Fundamental
3.0000 - 4.0000MHz	90Max	Fundamental
4.0000 - 5.0000MHz	70Max	Fundamental
5.0000 - 8.0000MHz	60Max	Fundamental
8.0000 - 10.000MHz	50Max	Fundamental
10.000 - 20.000MHz	30Max	Fundamental
20.000 - 50.000MHz	25Max	Fundamental
24.000 - 100.000MHz	40Max	Third Overtone

## Reflow Condition 回流焊条件



## Mechanical Dimensions 外型尺寸

U: TWO LEADS (两引线) UNIT (单位): mm (毫米)



UB: THREE LEADS (三引线) UNIT (单位): mm (毫米)

