

HC-49USM Crystal (TWO PADS)

●Part Number Guide

DX-T-F-LC-OT

T (Type型号): M=HC-49USM with height of 4.0mm Max
 M2=HC-49USM with height of 3.5mm Max
 M3=HC-49USM with height of 3.2mm Max
 M4=HC-49USM with height of 3.0mm Max

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

F (Frequency标称频率): Normal - 5 digitals of Frequency, e.g. 8.0000M, 12.000M
 Special - All digitals 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): 1060=-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

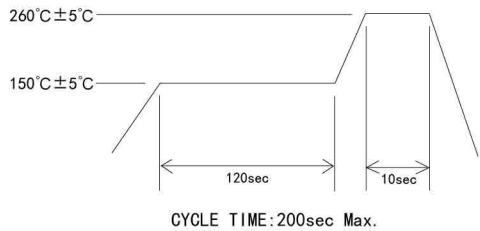
型号	Holder Type	HC - 49USM
频率范围	Frequency Range	3.5700MHz to 130.00MHz ※(See Notes)
调整频差	Frequency Tolerance (△F) (at25°C)	±10ppm to ±100ppm
温度频差	Frequency Stability	±10ppm to ±100ppm
工作温度范围	Operating Temperature Range	-10°C ~ +60°C to -40°C ~ +85°C
储存温度范围	Storage Temperature Range	-40°C ~ +85°C/-55°C ~ +125°C
老化	Aging (25°C)	±5ppm/year Maximum
静电容	Shunt Capacitance (C0)	7pF Maximum
激励功率	Drive Level	100µW Typical
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at D.C 100V
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.

●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
3.5700 - 4.0000MHz	150Max	Fundamental
4.0000 - 5.0000MHz	120Max	Fundamental
5.0000 - 6.0000MHz	100Max	Fundamental
6.0000 - 7.0000MHz	80Max	Fundamental
7.0000 - 10.000MHz	60Max	Fundamental
10.000 - 14.000MHz	50Max	Fundamental
14.000 - 20.000MHz	40Max	Fundamental
≥20.000MHz	30/40 (BT cut) Max	Fundamental
24.000 - 35.000MHz	100Max	Third Overtone
≥35.000MHz	80Max	Third Overtone

●Reflow Condition 回流焊条件



●Mechanical Dimensions 外型尺寸

Drawing For M

