

承 认 书

SPECIFICATION FOR APPROVAL

客户名称: Customer 深圳市立创电子商务有限公司

货 名: Description HC-49S 石英晶体谐振器

客户料号: Part No

物料编号: Code No 9AC09600202080C3

频 率: Frequency 9.600MHZ

日 期: Date 2021-02-03

备 注: RoHS compliance with Directive (EU) 2015/863

制作(Prepare by)	检查(Check by)	批准 (Approve by)
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客户批准 Approve by customer	
批准日期 Approval date	

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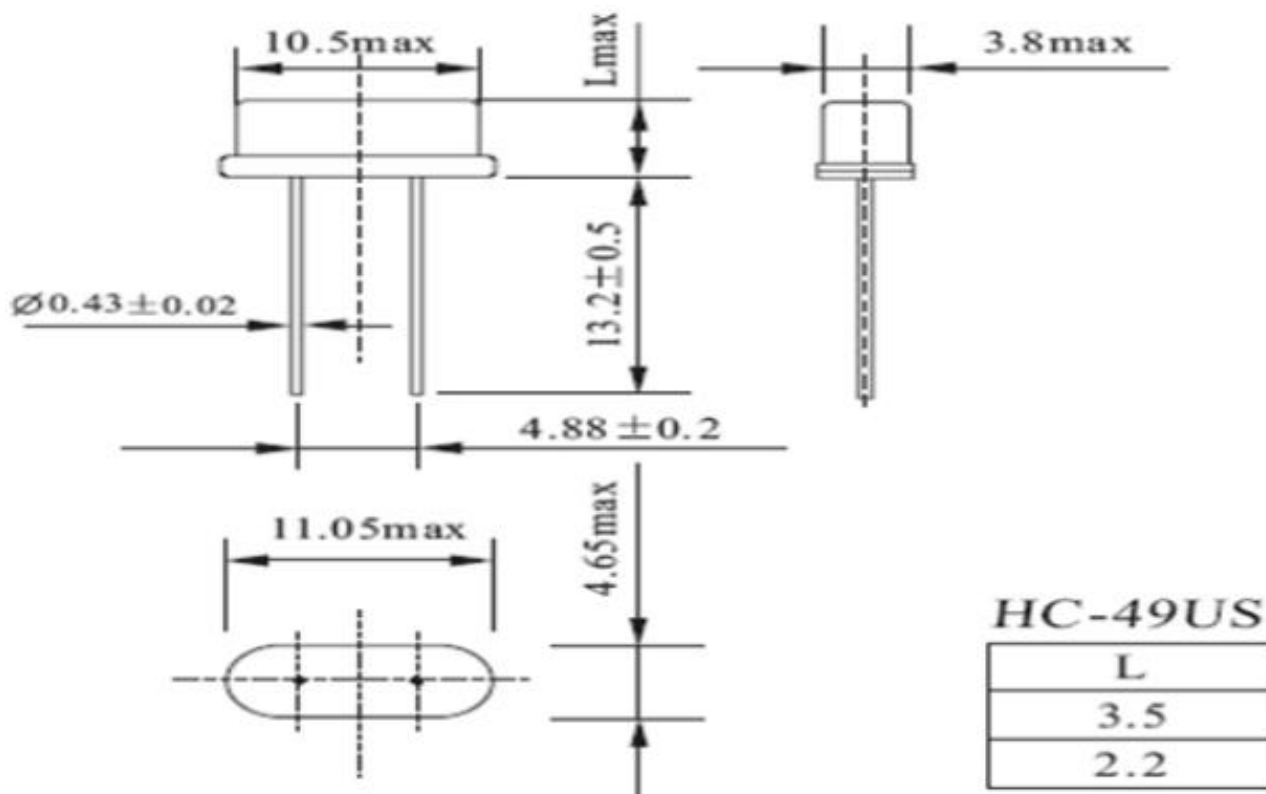
1、 Specifications

1	规格型号 Holder Type	HC-49S
2	标称频率 Nominal Frequency	9.600MHZ
3	振动模式 Mode of Oscillation	基频
4	调整频差 Frequency Tolerance at 25℃	±20ppm
5	温度频差 Temperature Frequency Stability	±30ppm
6	工作温度 Operating Temperature Range	-40~85℃
7	贮存温度 Storage Temperature Range	-40~90℃
8	负载电容 Load Capacitance	20 pF
9	静电容 Shunt capacitance	≤7 pF
10	等效电阻 Equivalent Series Resistance	80 Ω Max
11	激励功率 Drive Level	50uW
12	绝缘阻抗 Insulation Resistance	500MΩ min./DC100V

2、 Frequency stability over temperature range (AT cut)

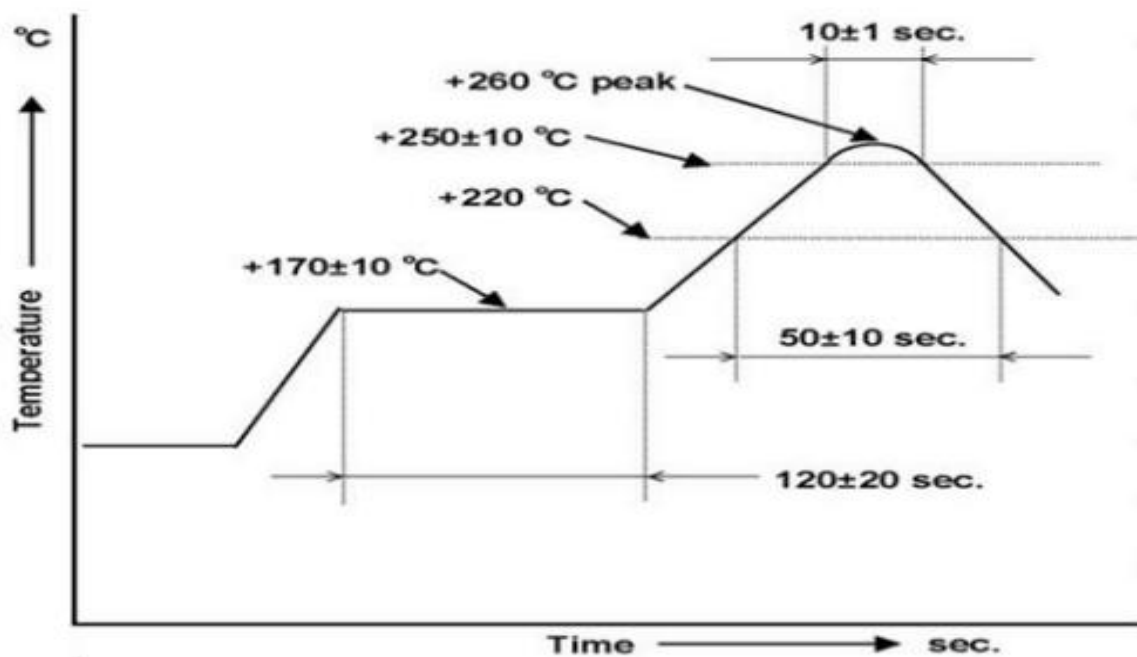
Temperature Range	Frequency Stability							
	±3PPM	±5PPM	±7.5PPM	±10PPM	±20PPM	±30PPM	±50PPM	±70PPM
0℃~+50℃	☆	☆	☆	☆	☆	☆	☆	☆
-10℃~+60℃			☆	☆	☆	☆	☆	☆
-20℃~+70℃				☆	☆	☆	☆	☆
-30℃~+70℃					☆	☆	☆	☆
-40℃~+85℃						☆	☆	☆
-40℃~+125℃						☆	☆	☆

3、Dimensions (unit:mm)



4、Recommended Reflow profile

Condition:



5、Reliability specifications

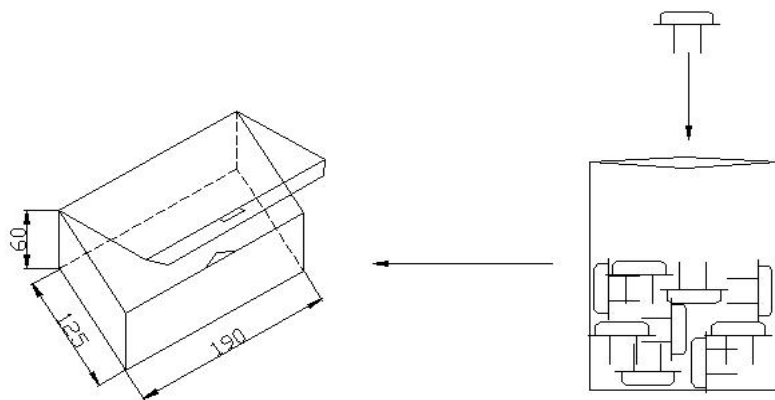
NO	Item	Condition	Standard
1.	Drop Test	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change: $\leq 5\text{ppm}$ Rr as specification
2.	Mechanical Shock	Half sine wave, 1000G, 0.5mS, three times for all 3 directions	Frequency change: $\leq 5\text{ppm}$ Rr as specification
3.	Vibration	Frequency range:10~55hz Amplitude:1.52mm Sweep time:1mintutes perpendicular axes each test time:2Hrs	Frequency change: $\leq 5\text{ppm}$ Rr as specification
4.	Solderability	Temperature:245℃ $\pm 5^{\circ}\text{C}$ Immersing depth:0.5mm minimum Immersion time:5 ± 1 sec. Flux:Rosin resin methyl alcohol solvent(1:4)	90% exhibit tin ok
5.	Resistance to soldering heat	Test temperature:260℃ $\pm 5^{\circ}\text{C}$ Test time :10 ± 1 sec.	Frequency change: $\leq 10\text{ppm}$ Rr as specification
6.	High Temp & Humidity	85 $\pm 3^{\circ}\text{C}$ & RH85%, 500 ± 12 hours	Frequency change: $\leq 10\text{ppm}$ Rr as specification
7.	Low temperature storage	-40 $\pm 3^{\circ}\text{C}$, 500 ± 12 hours	Frequency change: $\leq 10\text{ppm}$ Rr as specification
8.	High temperature storage	+85 $\pm 3^{\circ}\text{C}$, 500 ± 12 hours	Frequency change: $\leq 10\text{ppm}$ Rr as specification
9.	Temperature cycling	-40 $\pm 3^{\circ}\text{C}$ /10min~+85 $\pm 3^{\circ}\text{C}$ /10min, 100cycles	Frequency change: $\leq 10\text{ppm}$ Rr as specification

6、Packaging standard

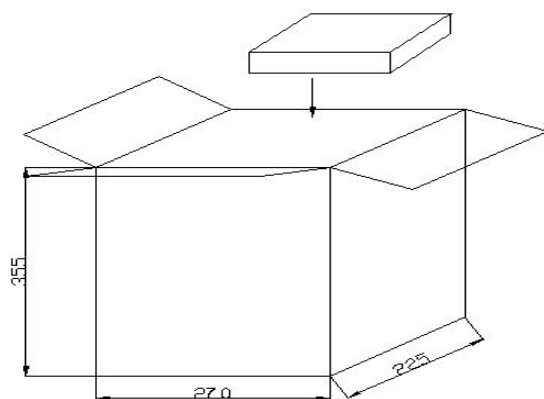
Dimension of Inside Package

内包装尺寸图

Dimensions of outside Package



外包装尺寸图



7-1. MARKING

- (1) Marking Labels are affixed to reel, inner carton and outer carton.
- (2) Each label contains the following information.
 - (a) Manufacture's name or symbol
 - (b) Parts name or type
 - (c) Frequency
 - (d) Quantity
 - (e) Reel number
 - (f) Manufacturer's code (EIAJ code)

7-2. QUANTITY

200pcs/bag

7-3. STORAGE ENVIRONMENT

- ✧ Storage the reel at normal temperature and humidity
- ✧ Open the packing just before using
- ✧ Do not expose the sun
- ✧ Do not storage with some erosive chemicals
- ✧ Nothing is allowed to put on the reel or carton to prevent mechanical damage

7-4. HANDLING

- ✧ Handle with care to prevent the damage of tape, reel and products.

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