产品规格书

SPECIFICATION

产	品	名	称	石英晶体谐振器 QUARTZ CRYSTAL UNITS		
型			号	HC-49US		
料			号	X49SD8MSD2SC		
标	称	频	率	8MHZ -20PF- 20 PPM		
页			次	共 7 页		

确认签章

APPROVAL SIGNATURE

客户		
客户物料号		
机种/型号		
批准	审核	检验

产品规格书/ SPECIFICATION	型号	HC-49US
I -1 晶振电性能 Electrical Characteristics	3	
1. 标称频率	<u>8.000</u> MH	Z
Nominal Frequency 2. 振动模式	基 频	
Mode of vibration 3. 工作温度范围	- <u>20</u> °C∼+	- <u>_70_</u> ℃
Operating Temperature Range 4. 保存温度范围	$-40^{\circ}\text{C}\!\sim\!+85^{\circ}\text{C}$	2
Storage Temperature Range 5. 频率偏差	<u>+ 20 ppm M</u>	ſax
Adjustment Tolerance 6. 温度偏差	± <u>30</u> ppm N	ſax
Tolerance over the Temperature Ran 7. 等效电阻	•	fax. at 25℃
Equivalent Series Resistance 8. 静电容	<u>≤ 5.0</u> pF	Max
Shunt Capacitance 9. 绝缘电阻	500M Ω Min.	/DC100V±15V
Insulation resistance 10. 老化率	±3ppm Max/Y	
Aging 11. 标字		
Marking		
1. YXC 8.0SDX	^{2.} YXC <u>8.0</u> SD	
Free	quency Code 🔨	Production Line PPM Code
II. 测试条件 Test Condition	PF Co	
1.负载电容	20 pF	
Load Capacitance	F	
2.激励功率	<u>100</u> µ W	
Level of Drive		
3.测试仪表 250 Equipment)B Crystal Impedar	nce Meter

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 III. 包装 PACKING 包装方式应符合运输和装卸要求, Packing must prevent damage durin will be settled by mutual agreement。 IV. 对环境影响 INFLUENCE TO ENV 本产品在生产过程中不使用 ODS This product doesn't use the class I V. 生产厂家 MANUFACTURE 公司名称: 	ng transportation an /IRONMENT I , 对臭氧层无破	nd handing. Specific method
 VI.其它 OTHERS 、如果您对本公司产品规格书有疑及改进。 If you have some doubt or unknofor settlement or development. 我们按照产品规格书要求保证最We guarantee that quartz crystal udata, we will provide it. 3.变更与联络 (MODIFYAND COM本产品在设计、工艺、材料、生量的因素有变更时,应事先提供更改后When the quality is changed dumaterial, manufacture place, main equimodified products and obtain approval from 4.售后服务 (AFTER SALE SERVIT 若在生产过程中遇到不良品,本改进措施报告经认可。 If the defection product was found if provide the improving measures in time. 	wing about this sp add 品质,若客户要 anit satisfies this sp NTACT) 产厂所、关键设备 的产品并经过质量 e to the changes ipment and worke om you, then start for CE) :公司负责调换,并	ecification, Please contact us 要求具体数据,我们可提供。 pecification, If you need the 备、操作人员等影响产品质 量认可后,方可大批量供货。 of the design, technology, rs, we will first supply the to supply mass production. 牛及时提交不良品的分析及





1.	机械性能试验	Mechanical Performance Tests				
试验	立项 目	试 验 方 法	规格 No.			
Test	Item	Test Method	Spec. No			
1-1	耐冲击 shock					
1-2	耐振性 Vibration	振动频率 10~55Hz,振幅 1.5mm 时间 1.5 分钟循环,在 X、Y、 Z 轴方向各 2 小时,总计 6 小时。 Subject the sample to 1.5-minute cycles of frequencies of 10 to 55 Hz and amplitudes of 1.5mm for two hours in each of the X,Y, and Z directions, or 6 hours in total.				
1-3	引出端强度 Tensile strength of terminal	每端子加 1.5Kg 负荷,保持 30±5 秒 Apply a 1.5Kg tensile load to each terminal and sustain it for 30±5 seconds.				
1-4	引线弯曲度 Bending strength of terminal	每端子加 0.5Kg 负荷并弯曲成 90°,恢复原状后,再反方向弯曲成 90°。 Apply a 0.5 Kg load to one of the terminals, and after tilting the main unit for 90°, restore to its original attitude. Then, tilt it in an opposite direction for 90°, and restore to its original attitude.				
1-5	 槽焊法,浸锡温度 260±5℃时间 5±0.5 秒,端子浸助焊剂 时间 5±0.5 秒,浸锡高度 2mm。 可焊性 Dip terminals in RMA flux for5±0.5 seconds. Under room temperature. Dip terminals in a 260±5℃ solder bath for 5±0.5 seconds. The solder shall leave an undipped terminal length of 2 mm at their base . 					
1-6	耐焊接热 Resistance to Soldering Heat	 槽焊法,温度 260±5℃时间 10±0.5 秒,锡面离基座高度 2mm 以上。 Dip terminals in a 260±5℃ solder bath for 10±0.5 seconds. The solder shall leave an undipped terminal length of 2 mm at their base. 	А			
1-7 Leaking Test		用氦质谱仪测试或加压测绝缘电阻 Take measurements with a helium leakage detector, or measure insulation resistance under pressure.	Е			

. нј 2.	「靠性试项 环境测试						
试验项目		·	试验方法		规格 No.		
Test	Item		Test Method		Spec. No.		
2.1	耐寒性	在-40℃环境中非工作状	态放置 500 小时				
2-1	Cold	Expose the sample in an in	noperative mode to 500 h	ours in a -40°C	A		
2-2	耐性	在+85℃环境中非工作状	态放置 500 小时		В		
2-2	Dry he	at Expose the sample in an ir	noperative mode to 500 h	ours in a 85 °C			
	耐湿性	在温度+65℃,湿度 95%	环境中非工作状态放置	500小时			
2-3	Damp hea	Expose the sample in an	inoperative mode to 50	0 hours in a 65	В		
		°C, and 95%RH					
	热冲击						
2-4	Thermal				А		
	shock		or the next 30 minutes in	each cycles.			
ECI	FICATIO	NS 规格					
规	格 No.		规 格				
Sp	ec No.	Specification					
		试验前后,频率变化在±5ppm 以内,等效电阻变化在要求范围内。					
	А	Any variation between the pre- and post-test frequencies shall remain within ± 5 ppm. The					
		post-test equivalent series resistance shall remain within its specified tolerance range.					
		试验前后,频率变化在±10pp					
		Any variation between the pre- and post-test frequencies shall remain within ± 10 ppm.					
		he post-test equivalent series resistance shall remain within its specified tolerance range.					
С		试验前后,外观未见明显损伤,气密性末破坏。					
		After each test, no visible damage shall be manifested, nor shall the hermetic seal break down.					
	D	At least 90% of each dipped area shall be covered by fresh solder					
	Е	1×10^{-2} µ Pa. m ³ /s Max	or IR \geq 500M Ω				
			· · · · · · · · · · · · · · · · · · ·				
		↓25±2℃环境中进行,	每次试验后,样	品必须在 25	±2℃环境中		
2 小	时以上。						