产品规格书

SPECIFICATION

产品名称	石英晶体谐振器 QUARTZ CRYSTAL UNITS
型 号	YT-26
料 号	X206032768KGB2SC
标 称 频 率	32.768KHZ-12.5PF-10PPM
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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	YT-26
I晶拥	東电性能 Electrical Characteristics		
1.	标称频率	32.768	KHZ
	Nominal Frequency		
2.	振动模式	基 波	
	Mode of vibration		
3.	工作温度范围	$-_20$ $^{\circ}$ C \sim	+ 70 ℃
	Operating Temperature Range		
4.	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	$-20^{\circ}\text{C}\!\sim\!+70$	$^{\circ}\mathbb{C}$
	Storage Temperature Range		
5.	频率偏差	<u>± 10</u> ppm	Max at 25℃
	Adjustment Tolerance	_ <u></u> PP	1.1W.1 W. 20
6.	温度偏差	<u>± 30 ppm</u>	Max
	Tolerance over the Temperature Ra		
7.	等效电阻	-	Max. at 25℃
'.	Equivalent Series Resistance		171dA: 4t 25 C
8.	静电容	5.0pF	Max
0.	Shunt Capacitance	PI	TVIU.A
9	绝缘电阻	500M O Min	$/DC100V \pm 15V$
'.	Insulation resistance	300141 1411111.	7DC100 V = 13 V
10	老化率	±3ppm Max	
10.	Aging	<u> — Эрриг Мих</u>	
11	标字		
11.	Marking		
	Warking //	I	
	YXC32GBC		
	TAGOZOBO TOTAL		
12	引线长度	10 ± 0.5 mm	
12.	Length of leading	10 <u>-</u> 0.5mm	
II _1	测试条件 Test Condition		
1.负载电容 12.5 pF			
Load Capacitance			
2.激励功率 1 μW			
	Level of Drive		
3.测试仪表 250B Crystal Impedance Meter			
Equipment			
	quipinent		

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III. 包装 PACKING

包装方式应符合运输和装卸要求,特殊包装须经双方认可。

Packing must prevent damage during transportation and handing. Specific method will be settled by mutual agreement.

Ⅳ.对环境影响 INFLUENCE TO ENVIRONMENT

本产品在生产过程中不使用 ODS I, 对臭氧层无破坏。

This product doesn't use the class I ODS at any of production process.

V. 生产厂家 MANUFACTURE

公司名称:

VI.其它 OTHERS

1. 如果您对本公司产品规格书有疑问或书中未列出,请与我方联系,协商解决及改进。

If you have some doubt or unknowing about this specification, Please contact us for settlement or development.

2.我们按照产品规格书要求保证晶体品质, 若客户要求具体数据, 我们可提供。 We guarantee that quartz crystal unit satisfies this specification, If you need the data, we will provide it.

3.变更与联络(MODIFY AND CONTACT)

本产品在设计、工艺、材料、生产厂所、关键设备、操作人员等影响产品质量的因素有变更时,应事先提供更改后的产品并经过质量认可后,方可大批量供货。

When the quality is changed due to the changes of the design, technology, material, manufacture place, main equipment and workers, we will first supply the modified products and obtain approval from you, then start to supply mass production.

4.售后服务(AFTER SALE SERVICE)

若在生产过程中遇到不良品,本公司负责调换,并及时提交不良品的分析及改进措施报告经认可。

If the defection product was found in the production process, we will exchange and provide the improving measures in time.

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Ⅷ. 可靠性试验项目 Reliability Test Items

1. 机械性能试验 Mechanical Performance Tests

	77.17或1主形成到 〕项目	试验方法	规格 No.
Test Item		Test Method	
1-1	耐冲击 shock	从 75 厘米高,3 次,自由落在 3 厘米的硬木板上 耐冲击 Orient the sample in any attitude and drop it three times from a	
1-2	耐振性 Vibration	振动频率 $10\sim55$ Hz,振幅 1.5 mm 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 1.5 mm for two hours in each of the X , Y , and Z directions, or 6 hours in total.	A
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.	A. C
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.	A. C
1-5	可焊性 Solder ability	槽焊法,浸锡温度 230 ± 5 ℃时间 5 ± 0.5 秒,端子浸助焊剂时间 5 ± 0.5 秒,浸锡高度 2mm。 Dip terminals in RMA flux for 5 ± 0.5 seconds. Under room temperature. Dip terminals in a 230 ± 5 ℃ solder bath for 5 ± 0.5 seconds. The solder shall leave an undipped terminal length of 2 mm at their base .	D
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.	A
1-7	气密性 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

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Ⅷ. 可靠性试项目 Reliability Test Items

2. 环境测试 Environmental Tests

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	
	Cold	Expose the sample in an inoperative mode to 500 hours in a -40°C	A
2.2	耐温性	在+85℃环境中非工作状态放置 500 小时	D
2-2	Dry heat	Expose the sample in an inoperative mode to 500 hours in a 85°C	В
	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		Expose the sample in an inoperative mode to 500 hours in a 65	В
	Damp heat	°C, and 95%RH	
2-4	热冲击	在-40℃保持 30 分钟,100℃保持 30 分钟,循环 5 次。	
	Thermal	Subject the sample to 5 temperature variation cycles at -40°C for	A
	shock	30 minutes and +100℃ for the next 30 minutes in each cycles.	

SPECIFICATIONS 规格

规格 No.	规 格
Spec 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。
A	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±10ppm 以内,等效电阻变化在要求范围内。
В	Any variation between the pre- and post-test frequencies shall remain within ±10 ppm.
	The post-test equivalent series resistance shall remain within its specified tolerance range.
	试验前后,外观未见明显损伤,气密性末破坏。
С	After each test, no visible damage shall be manifested, nor shall the hermetic seal break
	down.
D	上锡量至少在 90%以上.
	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≥500M Ω

※测试在室温 25±2℃环境中进行,每次试验后,样品必须在 25±2℃环境中恢复 2 小时以上。

Measureme	ts shall be taken at $25\pm2^{\circ}$ C, and after each test, the sample be expose
to two hours at	25±2℃