深圳市凯越翔实业

石英谐振器规格书

产 品 名 称：	石英晶体谐振器
产 品 型 号：	49US/16.9344MHZ
产 品 参 数：	20PF/±20PPM
原 厂 型 号：	KUS1693442020
尺 寸 图：	P.4
凯越翔实业技术部：	董宗全

工厂地址：深圳市宝安区观澜人民路蔡发工业城一栋四层　TEL：0755-89315823
89315866　FAX：0755-89315223　官网：www.kaiyuexiang.com

客 户 确 认 印 栏	
认 证 印 章 年 月 日	负 责 人 印 章 年 月 日

本规格章程连同本页合共 5 页

产 品 规 格 书

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1.GENERAL		
1.1 HOLDER TYPE		49US
1.2 MODE		AT CUT
VIBRATION	:	FUND
1.3 OSCILLATION MODE		S&A KH-1240
1.4 TEST FACILITIES		-40℃ TO +85℃
1.5 STORAGE		100 μW
TEMPERATURE	:	
1.6 DRIVER LEVEL		16.9344MHz
2.ELECTRICAL PARAMETER		±20ppm
2.1 NORMAL FREQUENCY		±20ppm
2.2 FREQUENCY TOLERANCE（25℃±2℃）		-20℃ TO +70℃
2.3 TEMPERATURE STABILITY		
2.4 OPERATING TEMPERATURE RANGE		20PF
2.5 LOAD CAPACITANCE		7PF MAX
2.6 MOTIONAL CAPACITANE		30Ω MAX
2.7 SHUNT CAPACITANCE		500M OHMS MIN AT DC 100V
2.8 EFFECTIVE SERIES RESISTANCE		
2.9 INSULATION RESISTANCE		95%COVERAGE BY USING 90/10
3.MECHANICAL PARAMETER		SOLD AT 245℃ FOR 5 SEC. DIPING
3.1 SOLDERABILITY		AFTER IMMERSION IN ALPHA 611
		FLUX FOR 5 SEC.

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Ⅰ MECHANICAL ENDURANCE 机械特性

Provided that measurement shall be carried out after letting it alone in the room temperature for 1 hour.

试验产品应在室温下放置 1 小时后方可进行以下试验。

①SHOCK 抗击测试

Electrical characteristics shall be satisfied after dropping three time from the height of 50 cm onto Hard wooden board .

产品从 50 cm 高度自由落下到硬木板 3 次电气参数仍符合要求。

②VIBRATION 抗振测试

Electrical characteristics shall be satisfied after supplying following Vibration .

电气性能应满足以下的振动要求。

(1)VIBRATION	FREQUENCY	振动频率	10—55Hz
(2)REPEATED	PERIOD	周 期	1—2min
(3)FULL	CYCLE	全 振 幅	1.5mm P—P
(4)DIRECTION		振动方向	X.Y.Z
(5)TIME		振动时间	2hours/each direction 2 小时/每个方向

③STRENGTH OF TERMINALS/LEAD—WIRES 引脚与基座底部的强度测试

-1 PULLING 拉力测试

a)Body of specimen shall be fixed, and 900g of tension weight shall be supplied gradually to axial direction of terminals/lead-wires for 30 sec .

产品应固定在 900g 的拉力的情况下逐渐延基座底部/引线脚中轴方向拉 30 秒钟。

b)After above test a), there is no observation of any visual damages on the specimen.

经过 a)的测试，产品应没有任何可以目测到的损坏。

-2 BENDING 弯曲度测试

a)Body of specimen shall be fixed, and 90degree bending shall be given, being supplied 225gs tension weight .

After that, terminals/lead-wires shall be straightened gradually .

Then the same bending and straightening shall be supplied to the opposite direction in the same axial . (Refer to Fig-1)

产品固定后，以 90º 的弯曲并供以 225g 的拉力，然后沿同一轴线并与相反的方向 90 º的弯曲及伸直。（如图 1 所示）

b)After above test a), there is no observation of any visual damages on the specimen .

通过 a)测试后，晶体上应没有任何可以目测到的损坏。

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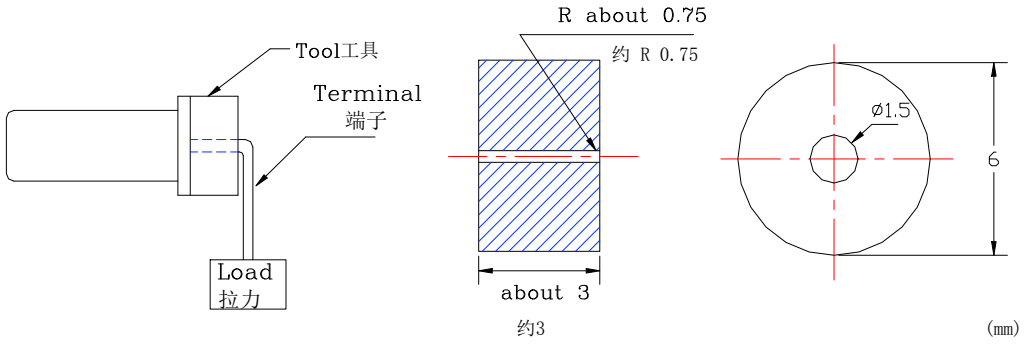


FIG－1

④SEALING　TIGHTNESS　气密性测试

There is no observation of gas bubble after specimen put in hot water at +90℃—+95℃ for 5 min .

晶体置于+90℃—+95℃的热水中 5 分钟，应没有气泡产生。

⑤SOLDERING　DIP　浸锡测试

Terminals/lead-wires of specimen shall be dipped into solder melted tank at +230℃—±5℃ for 3sec . Dipping depth shall be 2mm from the bottom of specimens body . (After applying ROSIN flux) Soldering portion shall be covered in over 90% of terminals/lead-wires dipped .

将晶体引线脚置于+230℃—±5℃的锡桶中 3 分钟，基座底部离锡表面 2mm，（加上松香焊剂后）引线脚的沾锡率为 90％以上。

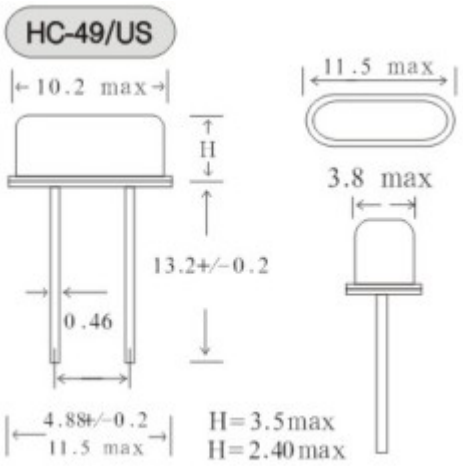
⑥SOLDER　HEATING　沾锡耐热性测试

Terminals/lead-wires of specimen shall be dipped into solder melted tank at

+350℃—±10℃　for 3^{+1}_{-0} sec .

Electrical characteristics shall be satisfied after dipping depth shall be 2mm from edge of terminals/lead-wires .

将已沾锡的产品的引线脚置于+350℃—±10℃的锡桶中 3-4 秒钟后 基座底部离锡表面 2mm，电气性能仍符合要求。7. 图示结构：



Ⅱ ENVIRONMENTAL ENDURANCE 环境特性

Provided that measurement shall be carried out after letting it alone in the room temperature for 1 hour .

必须将试验产品在室温下放置 1 小时后方可进行测试。

①HUMIDITY 耐湿测试

Electrical characteristics shall be satisfied after letting it alone at 60℃—±2℃ in humidity of 90—95% for 250 hours .

试验产品在温度为 60℃—±2℃，相对湿度 90—95%的试验箱内放置 250 小时后电气性能仍符合要求。

②STORAGE IN LOW TEMPERATURE 低温储存测试

Electrical characteristics shall be satisfied after letting it alone at -30℃—±2℃ for 250 hours .

试验产品在温度为-30℃—±2℃的试验箱中放置 250 小时后电气性能仍符合要求。

③STORAGE IN HIGH TEMPERATURE 高温储存测试

Electrical characteristics shall be satisfied after letting it alone at +85℃—±2℃ for 250 hours .

试验产品在温度为+85℃—±2℃的试验箱中放置 250 小时后电气性能仍符合要求。

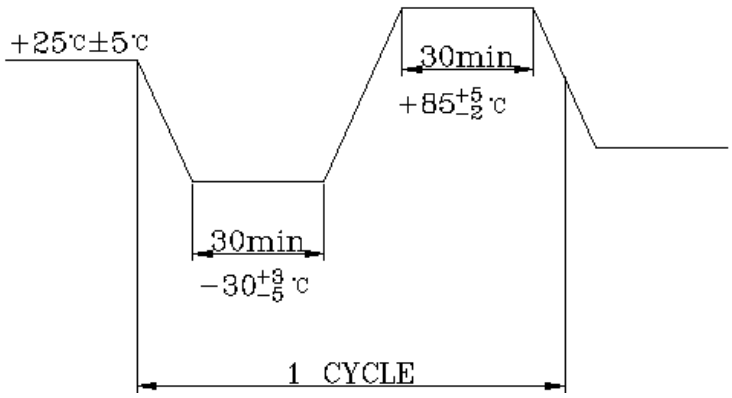
④TEMPERATURE CYCLE 温度变换测试

Electrical characteristics shall be satisfied after supplying the following temperature cycle (3cycles) .

Temperature shift from low to high, high to low shall be done in 1℃/min (Refer to Fig-2) .

电气性能应满足以下温度周期要求（3 个周期）

温度变换从低到高，从高到低变化量为 1℃/分。（如图 2 所示）



PIG — 2

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