SPECIFICATION

Customer : QUARTZ



Applied To :

Product Name : Piezo Buzzer

Model Name : KPI-G2210L-3385

Drawing No. : OEM3385R

Compliance with ROHS(本品符合ROHS指令)

Signature of Approval

Signature of KEPO

Approved by	Checked by	Issued by	Date	
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1. 范围 Scope

This product specification is applied to the piezoelectric sounder in alarm systems.Please contact us when using this product for any other applications than described in the above.

本规格书适用于压电式蜂鸣器,通常它用在系统中做报警或提示的蜂鸣器用,如果将该产品用于其它领域,请与我们取得联系。

2. 概要 General

2.1 Out-Diameter : Ø22mm

外径: Ø22 mm

- 2.2 Height : 10.5mm
- 高度: 10.5 mm 2.3 Weight : 6 gr.

<u>重量</u>: 6克

2.4 Case Material : ABS 壳体材质: ABS

3. 额定极限条件 Maximum Rating

	项目 Item	规格 Specification	
3.1	最高输入电压 Maximum input Voltage	3-30VDC	
3.2	工作温度范围 Operating Temperature Range	-20 ∼ +60 ℃	
3.3	储存温度范围 Storage Temperature Range	-30 ∼ +70℃	

4. 电性能 Electrical Characteristics

	项目 Item	规格 Specification
4.1	声压 Sound Pressure Level	88dB at 12VDC/30cm
4.2	频率 Resonant Frequency	4.2±0.5KHz
4.3	电流 Max.Rated Current	15mA at 12VDC
4.4	音调 Tone Nature	Continuous

测试条件参见下项

Refer to next item for measuring method.



	Item	Test Condition	Specification
6.1	耐冲击性 Shock	峰值加速度490m/s ² , 半正弦波, XYZ三个 方向各3次冲击实验后, 测试声响器. Sounder shall be measured after being applied shock(490m/s ²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	符合表1的要求
6.2	耐振动性 Vibration Resistant	振动频率 10~55 Hz,1.5mm 全振幅,XYZ 三个方向各2小时试验后,测试声响器. Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours.	The measured value shall meet Table 1.
6.3	抗跌落性 Dropping	75cm高度/2回自然落到亚麻布垫上. Dropped from 75cm high to linen with 2 times	

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7. 环境性能 Environmental Characteristics

	实验项目 Item	实验条 Test Con		实验后规格 Specification
7.1	高温放置 Dry Heat Test (Storage)	放置于温度+70±2℃的烘箱内240小时, 然后取出,在常温下放置4小时后,测试声响 器。 After being placed in a chamber with +70±2℃ for 240 hours and then being placed in natural condition for 4 hours, sounder shall be measured.		
7.2	低温放置 Cold Test (Storage)	放置于温度-30±2℃的制冷箱内240小时, 然后取出,在常温下放置4小时后,测试声响 器。 After being placed in a chamber with -30±2℃ for 240 hours and then being placed in natural condition for 4 hours, sounder shall be measured.		符合表1的要求 The measured value shall meet Table 1.
7.3	耐湿性 Humidity	放置于 90%~95% R.H.,温度+40±2℃的 环境试验箱内240小时,然后取出,在常温 下放置4小时后,测试声响器。 After being placed in a chamber with 90 to 95%R.H. at +40±2℃ for 240 hours and then being placed in natural condition for 4 hours, sounder shall be measured.		
7.4	温度循环 Temperature Cycle	先放置于温度-30±2℃的制 于室温(+20℃)15分钟后, 放置 钟, 再放置于室温(+20℃)15 经过以上循环5次,在常温下 器。 After being placed in a chan minutes, sounder shall be pla temperature(+20℃).After 15 temperature(+20℃).After 15 temperature, sounder shall be at +70±2℃. After 30 minutes sounder shall be returned to a for 15 minutes. After 5 above cycles, soun after being placed in natural of	先于+70±2℃的烘箱内30分 分钟. 放置4小时后,测试声响 nber at -30±2℃ for 30 iced at room minutes at this e placed in a chamber s at this temperature, room temperature (+20℃) der shall be measured	
		表 1 Tabl	e 1	
	项 Iter	目 n	试验后3 Specification	
	声压约 Sound Press		初始值: Initial Value	

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9. 包装标准 Packaging Standard

产品的外包装是纸箱,它应该清楚的标明型号,数量,出厂检验批号. 在运输及储存的过程中,产品必须不会受到机械损伤.

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number, quantity and outgoing inspection number.

There shall be no mechanical damage on products during transportation and/or in storage.

10. 警告 Cautions

如果产品使用于下列高可靠性的装置时,请与我们取得联系,以免对人的生命,财产和身体造成损害.

Please contact us before using our products for the undermentioned applications requiring especially high reliability in order to prevent defects which might directly cause damage to other party'slife, body or property(listed below).

(1)Aircraft equipment 飞行设备

(2)Aerospace equipment 航天设备

(3)Undersea equipment 潜水设备

(4)Medical equipment 医疗设备

(5)Transportation equipment (automobiles,trains ,ships) 交通设施

(6)Traffic signal equipment 交通信号设备

(7)Disaster prevention/crime prevention equipment 防灾害/防犯罪设备

(8)Data-processing equipment 数据处理设备

(9)Applications of similar complexity or reliability requirements comparable to the applications listed in the above 以及与上述相类似或可靠性要求更高的设备

11. 注意事项 Cautions for Use

11.1 如果产品所承受的机械应力超过规定的值,元件可能被破坏.

The component may be damaged if mechanical stress over this specification is applied.

11.2 请注意保护工作电路不会因失误,跌落和温度变化而产生浪涌电压.

Please pay attention to protect operating circuit from surge voltage provided by something of force such as failing ,shock and temperature changing.

11.3 请注意永远不要给压电声响器施加直流电压.

Please pay attention never to be applied DC voltage to piezo sounder.

11.4 该声响器不适合洗涤,因为它不密封.

Washing of the component is not acceptable. Because it is not sealded.

11.5 在使用烙铁的情况下,应注意烙铁头的温度应该保持在+350℃以下,并且焊接时间 控制在3秒内.

In case of using solder iron for soldering, the top of soldering iron's temperature should be kept less than +350 $^{\circ}$ C.Moreover the soldering time should be also kept with in 3seconds.

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12.	Revisio	n				
Rev. No.	DATE	PAGE	DESCRIP	TION		SIGN
1.0	2008.12.24	1	primar	у		
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