SPECIFICATION

Customer:

杭州金指码实业有限公司

Applied To:

Product Name: Magnetic Transducer

Model Name: KPM-G1203B1-3293

Drawing No.: OEM3293R

Compliance with ROHS

Siç	Signature of Approval					

Signature of KEPO

Approved by	Checked by	Issued by	Date

宁波凯普电子有限公司



Ningbo Kepo Electronics Co.,Ltd.

宁波东钱湖镇东钱湖工业区宝源路 25 号

TEL:+86-574-88370330 FAX:+86-574-88370329

No.25 Baoyuan road Dongqian Lake, Industry Area, Dongqian town, Ningbo City, China(Post Code:315121)

Sales@chinaacoustic.com

www.chinaacoustic com

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1. 范围 Scope

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

本规格书适用于电磁式声响器,通常它用在系统中做报警或提示的 声响器用,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: Ø12mm

外径:

Ø12 mm

2.2 Height

: 7.5mm

高度:

7.5 mm

2.3 Weight

: 2 g.

重量:

2克

2.4 Case Material/Color:

PBT/Black

壳体材质/颜色: PBT/黑

2.5 According to the No.7 of RoHS Exemptions,lead-based solder alloys containing 85 % by weight or more lead(Sn10Pb90)

根据"欧盟RoHS指令豁免条款"第7条规定,使用了铅含量超过85%的锡铅合金 焊料(Sn10Pb90)

3. 额定极限条件 Maximum Rating

	项目 Item	规格 Specification
3.1	工作温度范围 Operating Temperature Range	-20 ∼ +70°C
3.2	储存温度范围 Storage Temperature Range	-30 ∼ +80℃
3.3	额定电压 Rated Voltage	3.3V
3.4	工作电压 Operating Voltage	2∼5V

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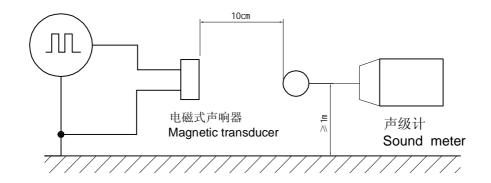
4. 电性能 Electrical Characteristics

	项目 Item	规格 Specification
4.1	Max.Rated Current 额定电流	160mA/3.3V
4.2	Resonant Frequency 谐振频率	3100Hz
4.3	Min.Sound Pressure Level 最小声压	85dB/3.3V/3100Hz/10cm
4.4	Coil Resistance 直流阻抗	5.5± 1 Ω
4.5	Coil Impedance 交流阻抗	9 Ω

5. 测试方法 Measuring Method

5.1 声压测试 S.P.L. Measuring

输入信号:3.3V,3100Hz,正向方波 Input Signal:3.3V,3100HZ,Square wave



5.2 测试环境 Measuring Condition

温度+25±3℃,湿度60±10%R.H.标准测试状态,在没有疑问的场合,可以在温度+5~+35℃,湿度45~85%R.H.的范围内测试.

Part shall be measured under a condition (Temperature :+5 to +35 $\,^{\circ}$ C,Humidity :45 to 85%R.H.)unless the standard condition (Temperature :+25 $\pm 3\,^{\circ}$ C,Humidity :60 $\pm 10\,^{\circ}$ KR.H.) is regulated measure.

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6. 机械性能 Physical Characteristics

	实验项目 Item	实验条件 Test Condition	实验后规格 Specification
6.1	耐冲击性 Shock	峰值加速度 490m/s², 正向方波, 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/s²) for each three mutually perpendicular directions to each of 3 times by half square wave.	Spoomos
6.2	耐振动性 Vibration Resistant	振动频率 10~30 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 to 30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours.	符合表1的要求
6.3	耐焊接性 Soldering Heat Resistance	将声响器的插针插入 (插至距声响器壳体 1.5mm处为止) +300±5℃的焊锡槽3±0.5秒 或+260±5℃的焊锡槽10±1秒,然后在常温中 放置4小时后,测试声响器. Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +300±5℃ for 3±0.5 seconds or±260±5℃ for 10±1 seconds, and then sounder shall be measured after being placed in natural condition for 4 hours.	The measured value shall meet Table 1.
6.4	可焊性 Solderability	先将声响器的插针浸入松香液 5秒钟,然后浸入+260±5℃熔融的锡槽中3±0.5秒. Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +260±5℃ for 3±0.5 seconds.	插针表面90%以 上被焊锡润湿.(插 针的段面除外) 90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
6.5	插针强度 Terminal Strength Pulling	分别在每个插针的轴向施加 9.8牛顿的静荷重10秒. The force 10 seconds of 9.8N is applied to each terminal in axial direction.	插针没有断开和 可见的损伤 No visible damage and cutting off

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7. 环境性能 Environmental Characteristics

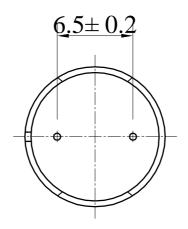
	Item	Specification	
1	High Temperature Test 高温试验	After being woked in a chamber with +70±2 ℃ for 2h and then being placed in natural condition for 2h, sounder shall be measured. 将产品置于 +70±2 ℃ 试验箱中,先工作 2小时,然后在正常大气压条件下恢复2小时后,进行测量	
2	Low Temperature Test 低温试验	First being worked in a chamber with -20±2 ℃ for 2h and then being placed in a chamber with -20±2 ℃ for 16h, finally being placed in natural condtion for 2h, sounder shall be measured. 将产品置于 -20±2 ℃试验箱中,先工作 2小时,再放置16小时,然后在正常大气压条件下恢复2小时后,进行测量	
3	Humidity Test 潮湿试验	After being placed in a chamber with 90 to 95%R.H. at +40±2 ℃ for 2 h and then being placed in natural condition for 2h, sounder shall be measured. 将产品置于湿度为 90~95%R.H,温度为40±2℃试验箱中 2 小时,然后在正常大气压条件下恢复 2小时后,进行测量	
4	Thermal Shock Test 热冲击试验	After being worked in a chamber at +70±2 ℃ for 1 hour, then sounder shall be placed in a chamber at -20±2 ℃ for 1 hour(1 cycle is the below diagram). After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour. 将产品置于70±2 ℃试验箱中,先工作1小时,然后将产品置于-20±2 ℃试验箱中,再工作1小时,经过6个循环后,在正常大气压条件下恢复1小时,进行测量	

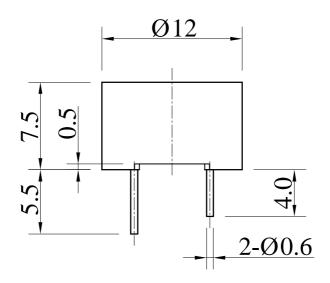
表 1 Table 1

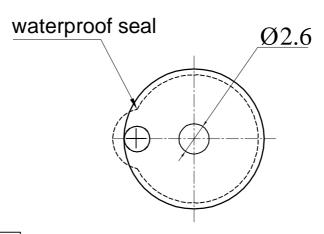
项 目	试验后变化量
Item	Specification after test
声压级	初始值±10dB
Sound Pressure Level	Initial Value±10dB

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8. Dimensions







FIRST ANGLE PROJECTION



UNIT : mm
Tolerance : ±

 ± 0.5

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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. 擎告 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's life, 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 该产品不适合洗涤,因为它不密封.

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

11.4 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. Revision							
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1.0	2008.11.21	9	primary	у			