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Model: KPQB-G48A01-Q10946	Drawing No.	OEM10946R

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1. Scope 范围

This product specification is applied to the Buzzer 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，请与我们联系。

2. General 概要

2.1 Out-Diameter 外径.....62X47.1 mm

2.2 Height 高度.....30.5mm

2.3 Weight 重量.....26±5 g

3. Maximum Rating 额定极限条件

	Item	Specification
3.1	Maximum Input Voltage 最大输入电压	15 VO_P
3.2	Operating Temperature Range 工作温度范围	-40 ~ +90℃
3.3	Storage Temperature Range 储藏温度范围	-40 ~ +90℃

4. Electrical Characteristics 电性能

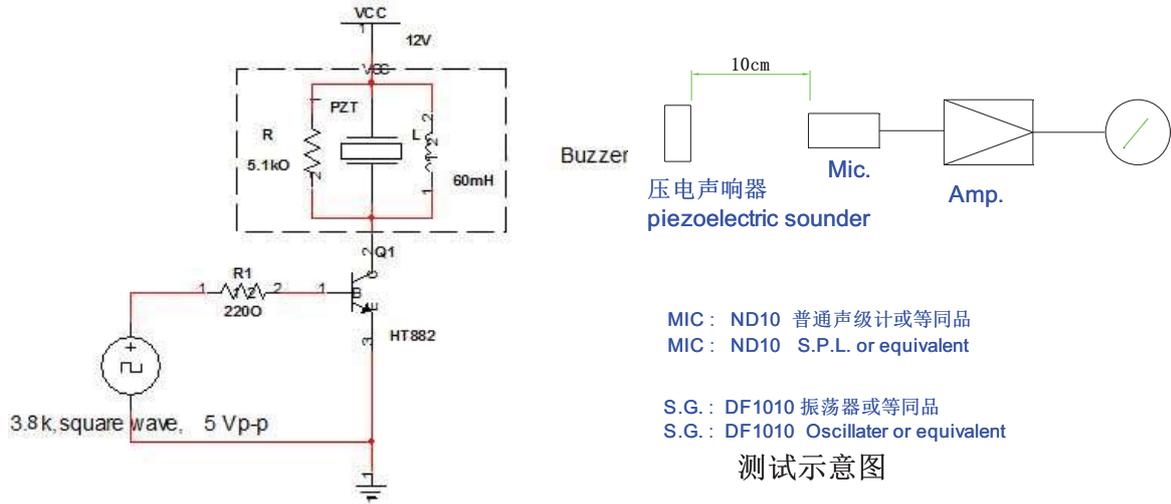
	Item	Specification
4.1	Rated Voltage 额定电压	12 VO_P
4.2	Operating Voltage 工作电压	9 ~15 VO_P
4.3	Min.Sound Pressure Level 额定声压	≥100dB/3.8K/12V/10cm
4.4	Tone Nature 音调	Continuous (直音)

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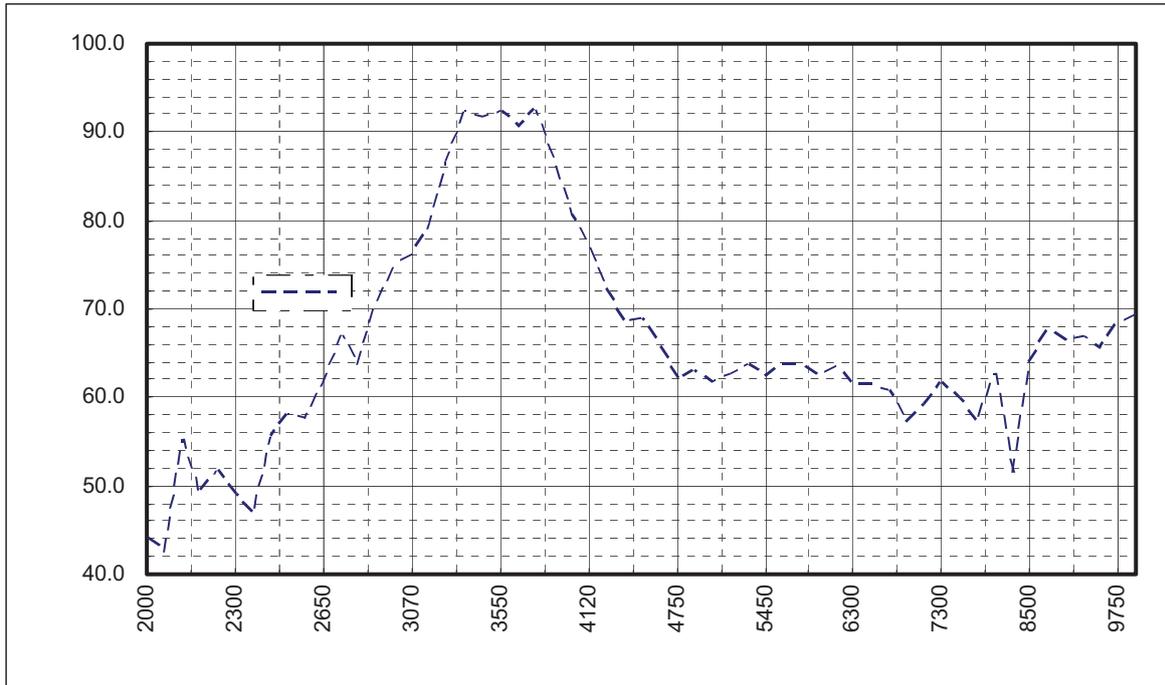
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5. Measuring Method 测试方法

5.1 Measurement Block Diagram 声压测试示意图



5.2 声压曲线 SPL Curve(测试条件: 4 Vrms sine wave /30cm,测试仪器: B&K)



5.3 Measuring Condition 测试环境

Part shall be measured under a condition (Temperature :+5 to +35 °C ,Humidity :45 to 85%R.H.)unless the standard condition (Temperature :+25±3°C, Humidity :60±10%R.H.) is regulated measure.

温度+25±3°C, 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°C,湿度 45~85%R.H.的范围内测试.

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6. Physical Characteristics 机械性能

	Item	Test Condition	Specification
6.1	振动试验 (Random vibration)	SO 16750-3, Sec. 4.1.2.4.2 振动频率: 10Hz~1000Hz 振动功率谱均方根值: 2.84G 振动方向: 安装方向 X、Y、Z 三轴 振动时间: 每轴向 8h (共 24h)	The measured value shall meet Table 1. 测试数据符合表 1.
6.2	Mechanical shock 100g 机械冲击试验 (100G)	EC 60068-2-27 冲击加速度: 100G 冲击波形: 半正弦 单次冲击持续时间: 11ms 冲击方向: 安装方向 ±X、±Y、±Z 六个方向 冲击次数: 六个方向各 3 次, 共 18 次	
6.3	自由落体试验 Drop test	SO 16750-3: Sec.4.3 跌落高度: 1m 跌落表面: 混凝土 跌落方向: ±X、±Y、±Z 六个方向 跌落次数: 每方向一次 DUT 的运行状态为 1.1	

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7. Environmental Characteristics 环境性能

	Item	Test Condition	Specification
7.1	High Temperature Test 高温试验	<p>After being woked in a chamber with $+90 \pm 2$ °C for 96h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 $+90 \pm 2$ °C 试验箱中, 先工作 96 小时, 然后在正常大气压条件下恢复 2 小时后, 进行测量</p>	<p>The measured value shall meet Table 1.</p> <p>测试数据符合表 1.</p>
7.2	Low Temperature Test 低温试验	<p>After being woked in a chamber with -40 ± 2 °C for 96h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 -40 ± 2 °C 试验箱中, 先工作 96 小时, 然后在正常大气压条件下恢复 2 小时后, 进行测量</p>	
7.3	Humidity 湿度试验	<p>After being placed in a chamber with 90 to 95%R.H. at $+40 \pm 2$°C for 96 hours and then being placed in natural condition for 2hours, sounder shall be measured</p> <p>放置于 90%~95% R.H., 温度 $+40 \pm 2$°C 的环境试验箱内 96 小时, 然后取出, 在常温下放置 2 小时后, 测试声响器。</p>	
7.4	Thermal Shock Test 温度冲击试验	<p>After being placed in a chamber at -40 ± 2°C for 30 minutes, sounder shall be placed at room temperature ($+20$ °C).After 15 minutes at this temperature ,sounder shall be placed in a chamber at $+90 \pm 2$°C. After 30 minutes at this temperature, sounder shall be returned to room temperature ($+20$°C) for 15 minutes.</p> <p>After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours.</p> <p>先放置于温度 -40 ± 2°C 的制冷箱内 30 分钟, 然后放置于室温 ($+20$°C) 15 分钟后, 放置于 $+90 \pm 2$°C 的烘箱内 30 分钟, 再放置于室温 ($+20$°C) 15 分钟.</p> <p>经过以上循环 5 次, 在常温下放置 2 小时后, 测试声响器。</p>	

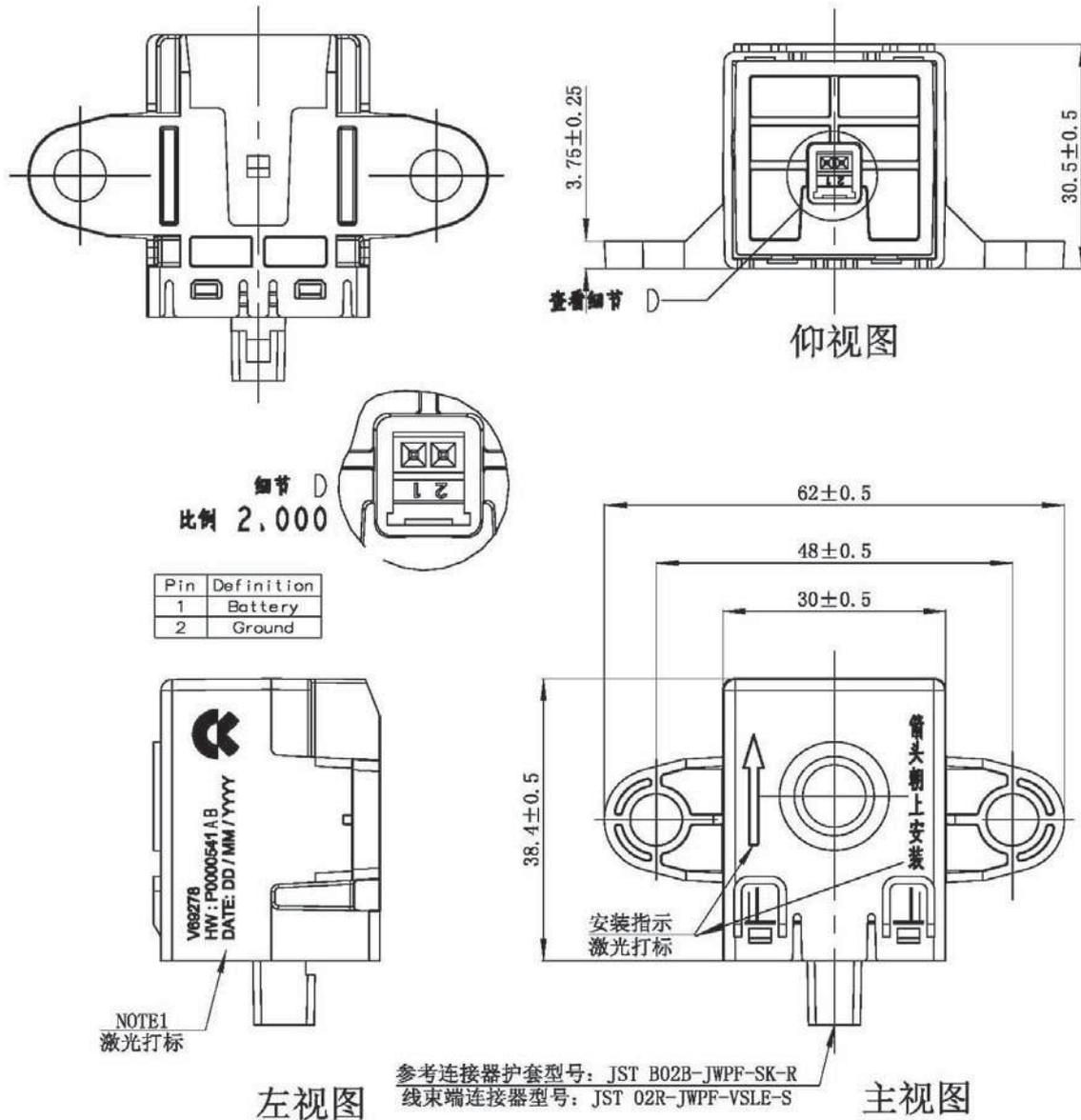
Table 1. 表 1

	Item	Specification after test
1	Sound Pressure Level 声压	Initial Value ± 5 dB 初始值 ± 5 dB

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8. Dimensions 尺寸



NOTE1: 激光打标内容说明

- ① ——— V69278
- ② ——— HW: P0000541 AB
- ③ ——— DATE: DD / MM / YYYY



- ① 蔚兰车厂零件编号
- ② 蔚兰零件图号, A B代表客户图纸版本号
- ③ 产品生产日期, 格式: 日日/月月/年年年年 例如: 2017年11月5日生产, 编号 05/11/2017
- ④ 蔚兰车厂的标志

FIRST ANGLE PROJECTION

Tolerance: ± 0.5

Unit: mm

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9. Packaging Standard 包装标准

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.

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.

10. Cautions 警告

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).

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

- (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. Cautions for Use 注意事项

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

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.

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

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.

11.3 Washing of the component is not acceptable. Because it is not sealed.

该声响器不适合洗涤,因为它不密封.

11.4 In case of using solder iron for soldering, the top of soldering iron's temperature should be kept less than +350°C. Moreover the soldering time should be also kept with in 3 seconds.

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