

SPECIFICATION

Customer : QUARTZ

Applied To :

受 控

Product Name : Magnetic Buzzer

Model Name : KPX-G1212AL-K10300

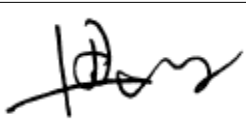
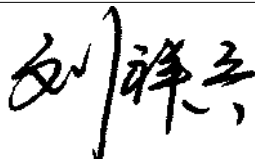
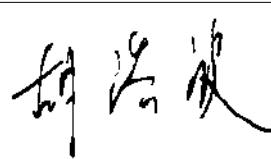
Drawing No. : OEM10300R

Compliance with ROHS(本品符合ROHS指令)

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

Specification for Magnetic Buzzer		Page	2/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

CONTENTS

1. **Scope**
范围
2. **General**
概要
3. **Electrical and Acoustic Characteristics.**
电声参数
4. **Reliability Test**
可靠性试验
5. **Measurement Block Diagram &Response curve**
测试图和曲线图
6. **Structure**
结构
7. **Dimensions**
尺寸
8. **Packing**
包装
9. **Revision**
履历表

Specification for Magnetic Buzzer		Page	3/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

1. Scope

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

本规格书适用于电磁式蜂鸣器，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，请与我们联系。

2. General

2.1 Out-Diameter : Ø12 mm

外径: Ø12 mm

2.2 Height : 9.5 mm

高度: 9.5 mm

2.3 Weight : 2 g

重量: 2克

2.4 Operating Temperature range:

-20~+70°C without loss of function

工作温度: -20~+70°C

Store Temperature range:

-30~+80°C without loss of function

储藏温度: -30~+80°C

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. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

测试条件: 15~35 °C, 25%~85%RH, 860~1060mbar

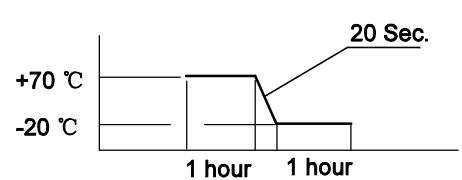
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	12VDC
2	Operating Voltage 工作电压	8~15VDC
3	Max. Rated Current 额定电流	30mA/12VDC
4	Resonant Frequency 谐振频率	2.3±0.3KHz
5	Min. Sound Pressure Level 额定声压	85dB/12VDC/10cm
6	Tone Nature 音调	Continuous (直音)
7	Case Material/Color 壳体材质/颜色	PBT/BLACK

Specification for Magnetic Buzzer		Page	4/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

4. Reliability Test

After test(1~6item), the Buzzer S.P.L . difference shall be within $\pm 10\text{dB}$, Frequency difference shall be within $\pm 0.5\text{KHz}$. and the appearance not exist any change to be harmful to normal operation(e.g. cracks,rusts,damages and especially distortion).

在1-6项试验后，蜂鸣器的声压变化值在 $\pm 10\text{dB}$ 之内，频率变化在 $\pm 0.5\text{KHZ}$ 之内。外观无变化（例如：开裂、生锈、损伤、变形等现象）。

1	High Temperature Test 高温试验	<p>After being placed in a chamber with $+70\pm 2^\circ\text{C}$ for 240 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</p> <p>放置于温度$+70\pm 2^\circ\text{C}$的烘箱内240小时，然后取出，在常温下放置2小时后，测试声响器。</p>
2	Low Temperature Test 低温试验	<p>After being placed in a chamber with $-20\pm 2^\circ\text{C}$ for 240 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</p> <p>放置于温度$-20\pm 2^\circ\text{C}$的制冷箱内240小时，然后取出，在常温下放置2小时后，测试声响器</p>
3	Humidity Test 潮湿试验	<p>After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2^\circ\text{C}$ for 240 h and then being placed in natural condition for 2h , sounder shall be measured.</p> <p>将产品置于湿度为 90~95%R.H，温度为$40\pm 2^\circ\text{C}$试验箱中 240小时，然后在正常大气压条件下恢复2小时后，进行测量</p>
4	Thermal Shock Test 热冲击试验	<p>After being worked in a chamber at $+70\pm 2^\circ\text{C}$ for 1 hour, then sounder shall be placed in a chamber at $-20\pm 2^\circ\text{C}$ for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour.</p> <p>将产品置于$70\pm 2^\circ\text{C}$试验箱中，先工作1小时，然后将产品置于$-20\pm 2^\circ\text{C}$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</p> 

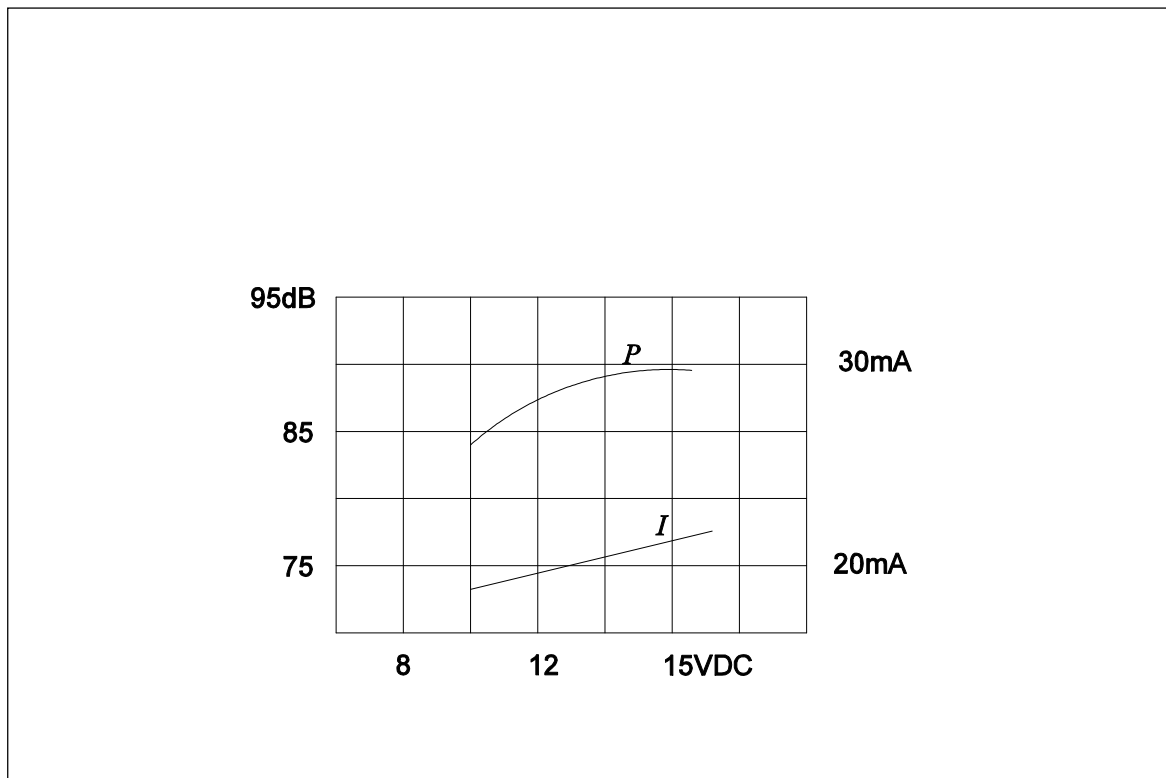
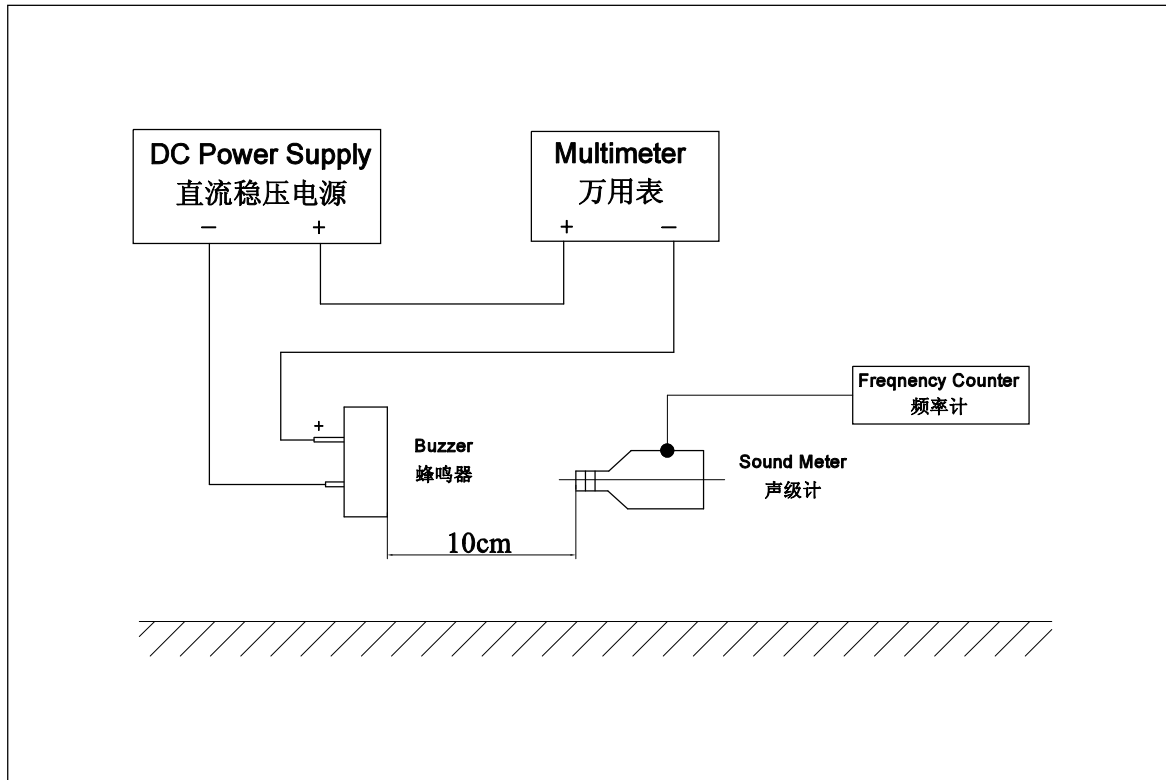
Specification for Magnetic Buzzer		Page	5/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

4. Reliability Test

	Item	Specification
5	Vibration Resistance 振动试验	<p>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 hour.</p> <p>振幅为1.5mm，频率为10~30Hz，三个不同轴方向各振动2小时，试验后进行测量。</p>
6	Drop Test 跌落试验	<p>Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor.</p> <p>跌落高度80cm,6个不同方向整箱跌落到水泥地，试验后进行测量。</p>
7	连续运行 continuum run	<p>12VDC/240小时</p> <p>12VDC/240hours</p>

Specification for Magnetic Buzzer		Page	6/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

5. Measurement Block Diagram & Response curve



Specification for Magnetic Buzzer		Page	7/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

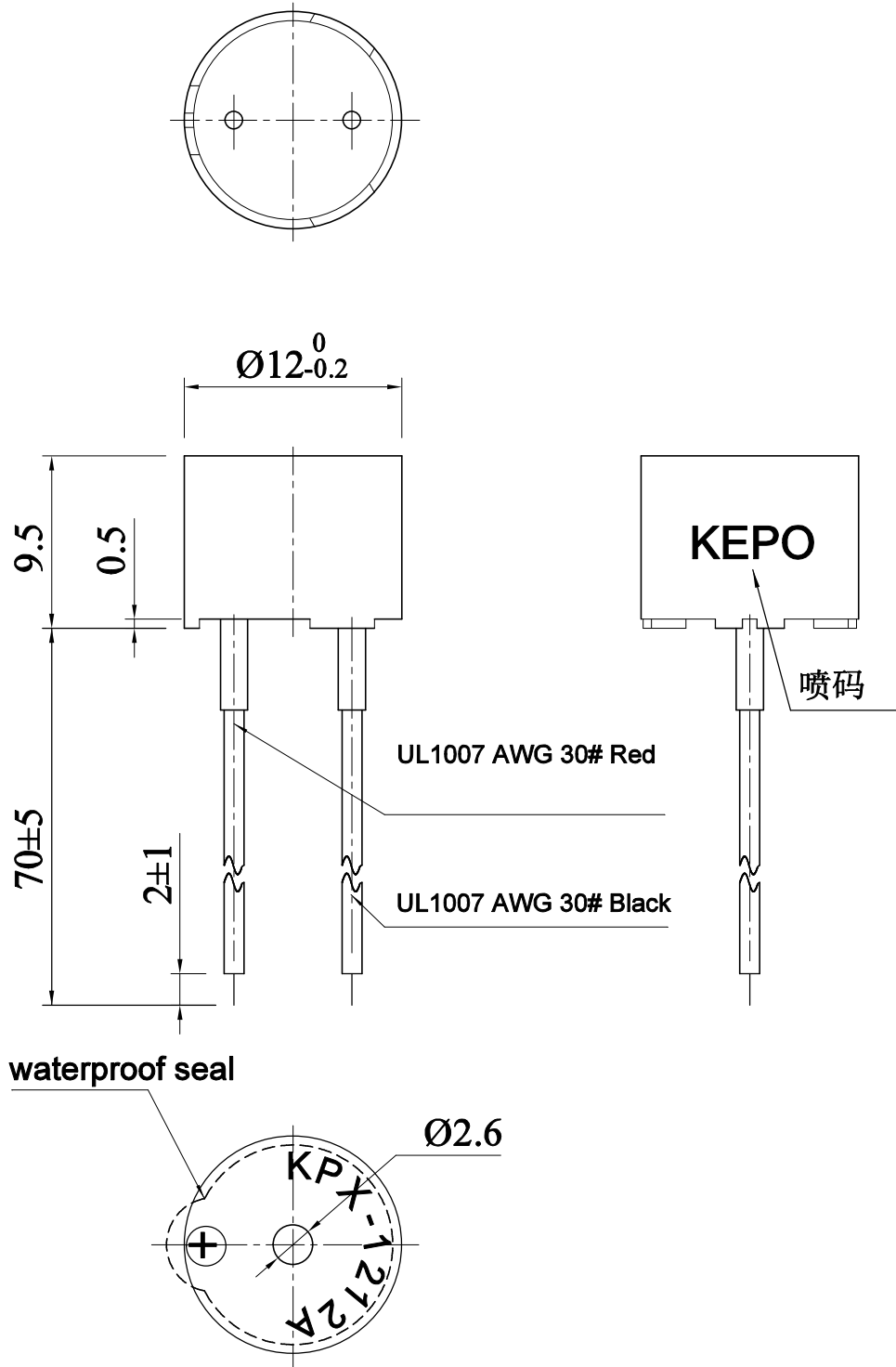
6. Structure



7	Wire 引线	1	UL1007/AWG 30#	
6	Case 壳体	1	PBT	
5	T Core T 铁	1	Fe	
4	Coil 线圈	1	QANR	
3	Magnetic ring 磁环	1	—	
2	PCB with pin 带导针印制板	1	—	
1	Diaphragm 膜片	1	—	
No.	Part Name 型号	Q'TY	Material 材质	SGS 编号

Specification for Magnetic Buzzer		Page	8/10
		Revision No.	1.0
Model No. :	KPX-G1212AL-K10300	Drawing No.	OEM10300R

7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ± 0.5

Specification for Magnetic Buzzer	Page	9/10
	Revision No.	1.0
Model No. : KPX-G1212AL-K10300	Drawing No.	OEM10300R

8. Packing



QTY: 1600PCS
425x275x220mm

