

Specification for Mechanical Buzzer		Page	3/10
Model No. :            KPMB-G2612L-K7564	Revision No.		1.0
	Drawing No.		OEM7564R

## 1. Scope

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

本规格书适用于机械式蜂鸣器，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 Form : Ø26mm

外形 : Ø26mm

2.2 Height : 17.6mm

高度 : 17.6 mm

2.3 Weight : 12 g

重量 : 12克

2.4 Operating Temperature range:

-20~+60°C without loss of function

工作温度: -20~+60°C

Store Temperature range:

-30~+70°C without loss of function

储藏温度: -30~+70°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, ~~860~1060~~ mbar

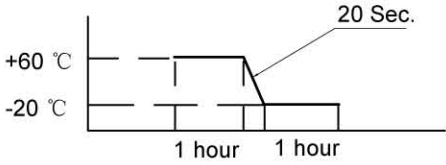
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	12VDC
2	Operating Voltage 工作电压	9~15VDC
3	Max.Rated Current 额定电流	30mA/12VDC
4	Resonant Frequency 谐振频率	400±100Hz
5	Min.Sound Pressure Level 额定声压	85dB/12VDC/20cm
6	Tone Nature 音调	Continuous (直音)
7	Case Material/Color 壳体材质/颜色	ABS/White

Specification for Mechanical Buzzer		Page	4/10
Model No. : KPMB-G2612L-K7564		Revision No.	1.0
		Drawing No.	OEM7564R

## 4. Reliability Test

After test(1~9item), 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1-9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）。

	Item	Specification
1	High Temperature Test 高温试验	<p>After being worked in a chamber with <math>+60\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>+60\pm 2\text{ }^\circ\text{C}</math> 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</p>
2	Low Temperature Test 低温试验	<p>First being worked in a chamber with <math>-20\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in a chamber with <math>-20\pm 2\text{ }^\circ\text{C}</math> for 16h, finally being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>-20\pm 2\text{ }^\circ\text{C}</math> 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</p>
3	Humidity Test 潮湿试验	<p>After being placed in a chamber with 90 to 95%R.H. at <math>+40\pm 2\text{ }^\circ\text{C}</math> for 2 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<math>40\pm 2\text{ }^\circ\text{C}</math>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</p>
4	Thermal Shock Test 热冲击试验	<p>After being worked in a chamber at <math>+60\pm 2\text{ }^\circ\text{C}</math> for 1 hour, then sounder shall be placed in a chamber at <math>-20\pm 2\text{ }^\circ\text{C}</math> 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<math>60\pm 2\text{ }^\circ\text{C}</math>试验箱中，先工作 1小时，然后将产品置于<math>-20\pm 2\text{ }^\circ\text{C}</math>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 Mechanical Buzzer		Page	5/10
Model No. : KPMB-G2612L-K7564		Revision No.	1.0
		Drawing No.	OEM7564R

## 4. Reliability Test

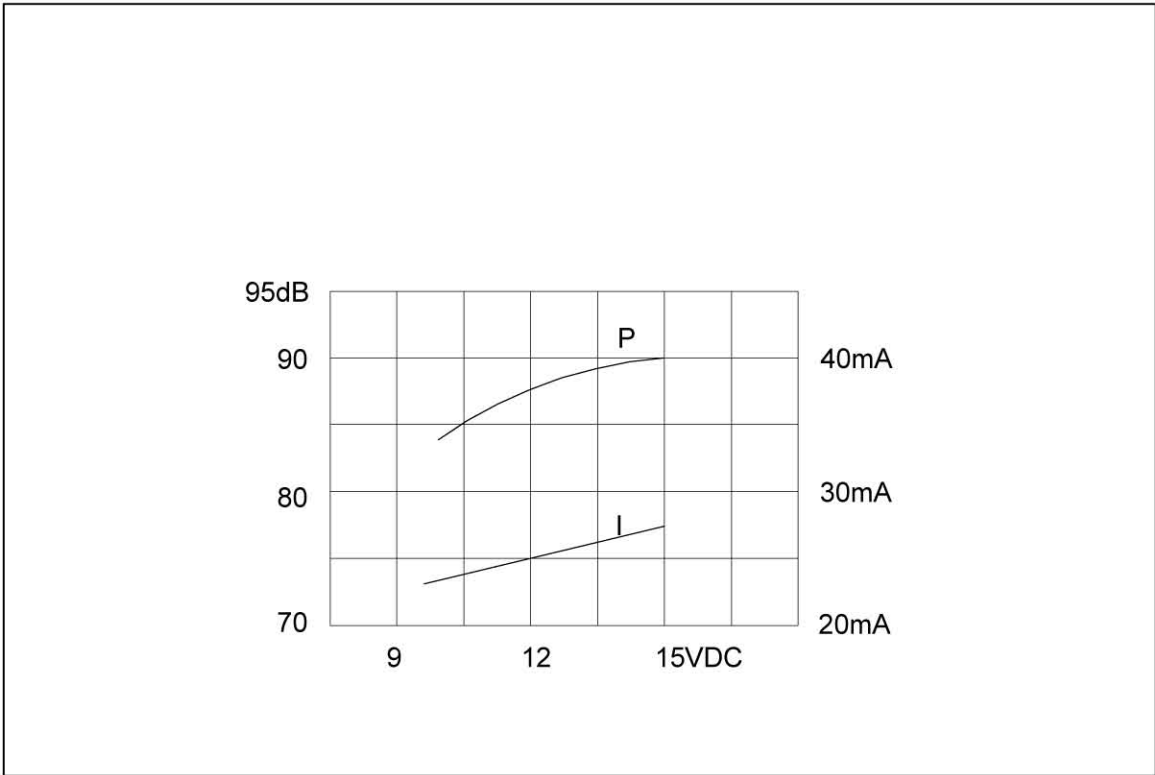
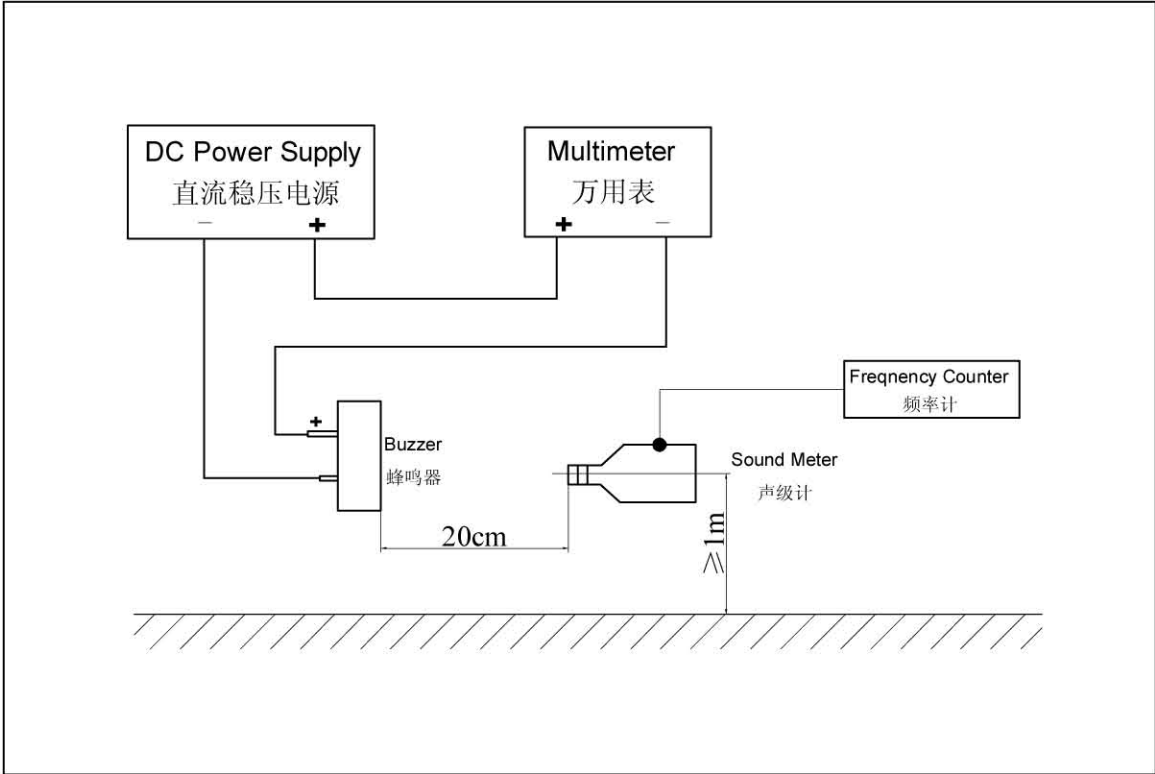
	实验项目 Item	实验条件 Test Condition	实验后规格 Specification
6.1	耐冲击性 Shock	峰值加速度 $490\text{m/s}^2$ , 半正弦波, XYZ三个方向各3次冲击实验后, 进行测试。 Sounder shall be measured after being applied shock( $490\text{m/s}^2$ ) for each three mutually perpendicular directions to each of 3 times by half sine wave.	符合表1的要求  The measured value shall meet Table 1.
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, 进行测试。 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.	

表1  
Table 1

	项目 Item	判定基准 Determinant norm
	声压 SPL	在初始值的 $\pm 10\text{dB}$ 以内 $\pm 10\text{dB}$ based on initial value
	频率 Frequency	在初始值的 $\pm 0.5\text{KHz}$ 以内 $\pm 0.5\text{KHz}$ based on initial value after expose 4hours at normal temperature

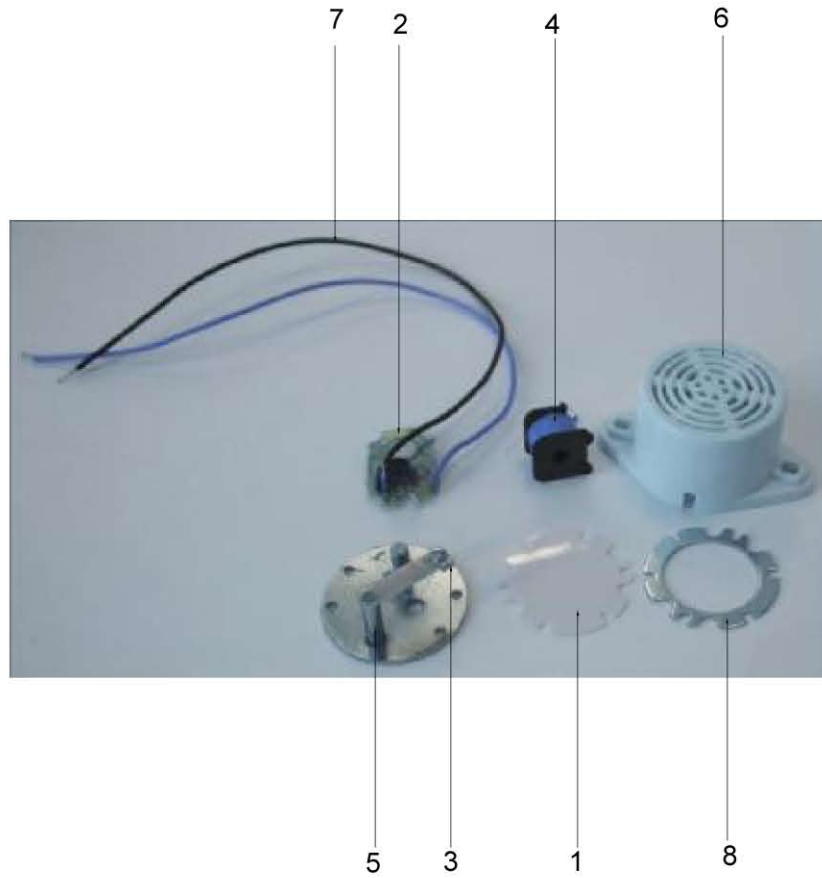
Specification for Mechanical Buzzer	Page	6/10
	Revision No.	1.0
Model No. : KPMB-G2612L-K7564	Drawing No.	OEM7564R

### 5. Measurement Block Diagram & Response curve



Specification for Mechanical Buzzer		Page	7/10
		Revision No.	1.0
Model No. :	KPMB-G2612L-K7564	Drawing No.	OEM7564R

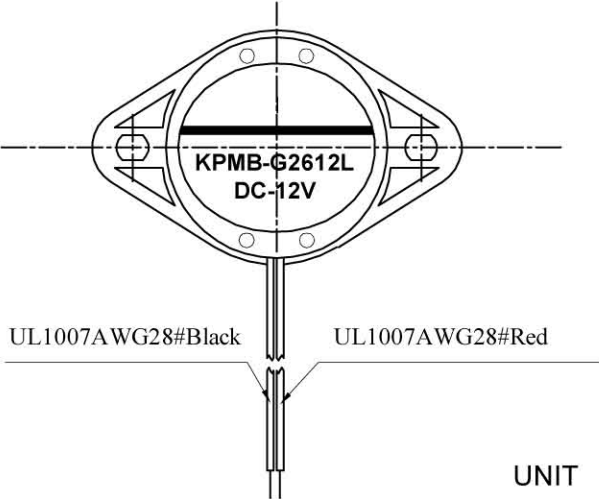
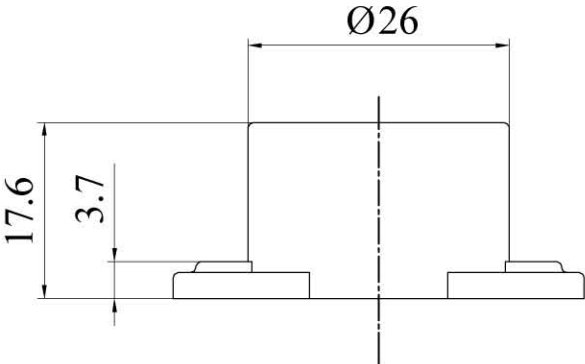
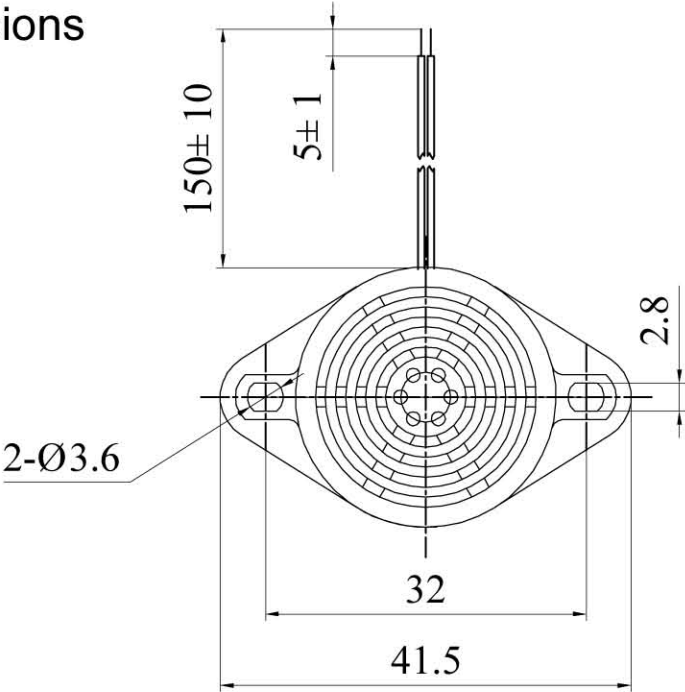
## 6. Structure



8	Gasket 垫片	1	08F	
7	Wire 引线	2	UL1007 AWG 28#	
6	Case 壳体	1	ABS	
5	T Core T 铁	1	Fe	
4	Coil 线圈	1	QA	
3	Magnetic ring 磁块	1	/	
2	PCB 印制板	1	/	
1	Diaphragm 膜片	<b>1</b>	/	
No.	Part Name 型号	Q'TY	Material 材质	SGS 编号

Specification for Mechanical Buzzer	Page	8/10
	Revision No.	1.0
Model No. : KPMB-G2612L-K7564	Drawing No.	OEM7564R

7. Dimensions



FIRST ANGLE PROJECTION

UNIT : mm  
Tolerance :  $\pm 0.5$