

# SPECIFICATION

Customer: SEA ELECTRONICS

Applied To:

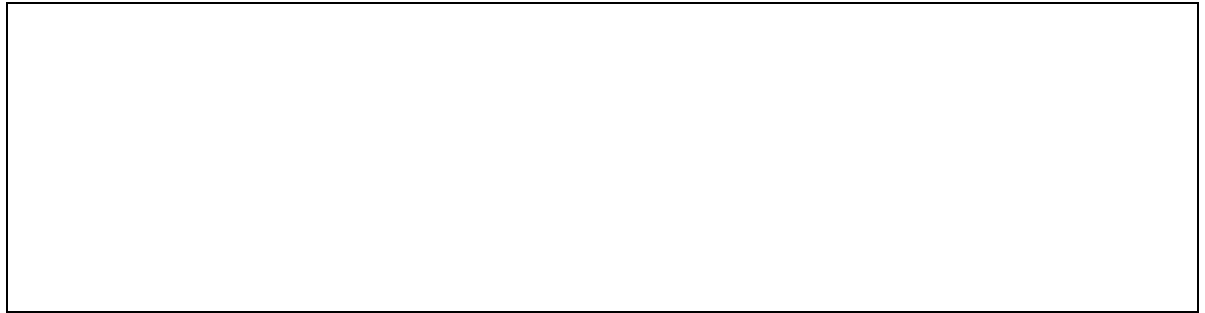
Product Name: Magnetic Buzzer

Model Name: SMA-G1205B-K11108

Drawing No.: OEM11108R

受控

Compliance with ROHS (本品符合 ROHS 指令)



Signature of KEPO

Issued by	Checked by	Approved by	Date
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<b>SPECIFICATION</b>	Page	2 / 9
	Revision No.	1.0
Model: SMA-G1205B-K11108	Drawing No.	OEM11108R

## CONTENTS

- 1.Scope 范围.
- 2.General.概要
- 3.Maximum Rating 额定极限条件
- 4.Electrical Characteristics 电性能
5. Measuring Method & Response curve 测试方法& 频响曲线
- 6.Physical Characteristics 机械性能
- 7.Environmental Characteristics 环境性能
- 8.Dimensions 尺寸
- 9.Packaging 包装
- 10.Cautions.警告
- 11.Cautions for Use 注意事项

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Revision 履历表				

<b>SPECIFICATION</b>	Page	3 / 9
	Revision No.	1.0
	Drawing No.	OEM11108R
Model: SMA-G1205B-K11108		

### 1. Scope 范围

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 概要

2.1 Out-Diameter 外径.....12.5x12.5 mm

2.2 Height 高度.....7.0mm

2.3 Weight 重量.....2.0g

2.4 Case Material/Color

壳体材料/颜色..... PPS/Black 黑色

### 3. Maximum Rating 额定极限条件

Item	Specification
3.1 Maximum Input Voltage 最大输入电压	7.0 V
3.2 Operating Temperature Range 工作温度范围	-40 ~ +85℃
3.3 Storage Temperature Range 储藏温度范围	-40 ~ +85℃

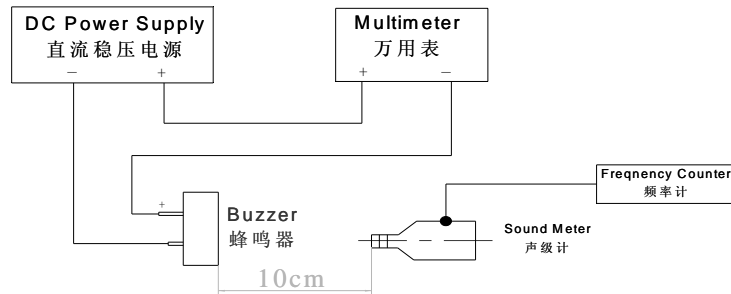
### 4. Electrical Characteristics 电性能

Item	Specification
4.1 Rated Voltage 额定电压	5.0 VDC
4.2 Operating Voltage 工作电压	4 ~7VDC
4.3 Max. Rated Current 额定电流	40mA/5V
4.4 Resonant Frequency 谐振频率	2.3± 0.3 KHz
4.5 Min. Sound Pressure Level 额定声压	≥87dB/5.0V/10cm
4.6 Tone Nature 音调	Continuous (直音)

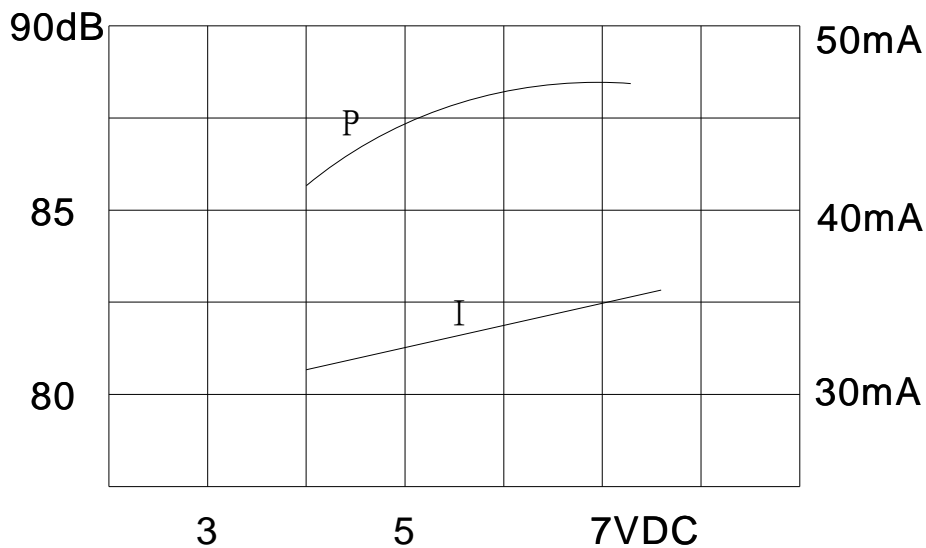
<b>SPECIFICATION</b>	Page	4 / 9
	Revision No.	1.0
Model: SMA-G1205B-K11108	Drawing No.	OEM11108R

## 5. Measuring Method 测试方法

### 5.1 Measurement Block Diagram 声压测试示意图



### 5.2 曲线图 Response Curve



### 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.

<b>SPECIFICATION</b>  Model: SMA-G1205B-K11108	Page	5 / 9
	Revision No.	1.0
	Drawing No.	OEM11108R

## 6. Physical Characteristics 机械性能

	Item	Test Condition	Specification
6.1	Free drop 跌落试验	Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor.产品固定到 PCB 上, 从 1m 高朝水泥地自由跌落, X, Y, Z6 个方向各跌落一次。 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.	The measured value shall meet Table 1.  测试数据符合表 1.
6.2	Vibration Resistant 振动试验	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. 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.	
6.3	Soldering Heat Resistance 焊接性	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of $+300 \pm 5^{\circ}\text{C}$ for $3 \pm 0.5$ seconds or $\pm 260 \pm 5^{\circ}\text{C}$ for $10 \pm 1$ seconds. 将声响器的插针插入(插至距声响器壳体 1.5mm 处为止) $+300 \pm 5^{\circ}\text{C}$ 的焊锡槽 $3 \pm 0.5$ 秒或 $+260 \pm 5^{\circ}\text{C}$ 的焊锡槽 $10 \pm 1$ 秒。	
6.4	Solderability 可焊性	Specimen shall be dipped into the soldering bath conditioned as follows : Soldertemperature: $260 \pm 5^{\circ}\text{C}$ Soakingtime: $2 \pm 0.5\text{s}$ 95% surface of lead pins must be covered with fresh solder and no soldering balls should be found 将产品插针部分浸入 $260 \pm 5^{\circ}\text{C}$ 的锡炉中 $2 \pm 0.5$ 秒后检测插针 95%被锡浸润。	插针表面 90%以上被焊锡润湿.(插针的断面除外)
6.5	Terminal Strength Pulling 插针强度	The force 10 seconds of 9.8N is applied to each terminal in axial direction. 分别在每个插针的轴向施加 9.8 牛顿的静荷重 10 秒.	

<b>SPECIFICATION</b>  Model: SMA-G1205B-K11108	Page	6 / 9
	Revision No.	1.0
	Drawing No.	OEM11108R

### 7. Environmental Characteristics 环境性能

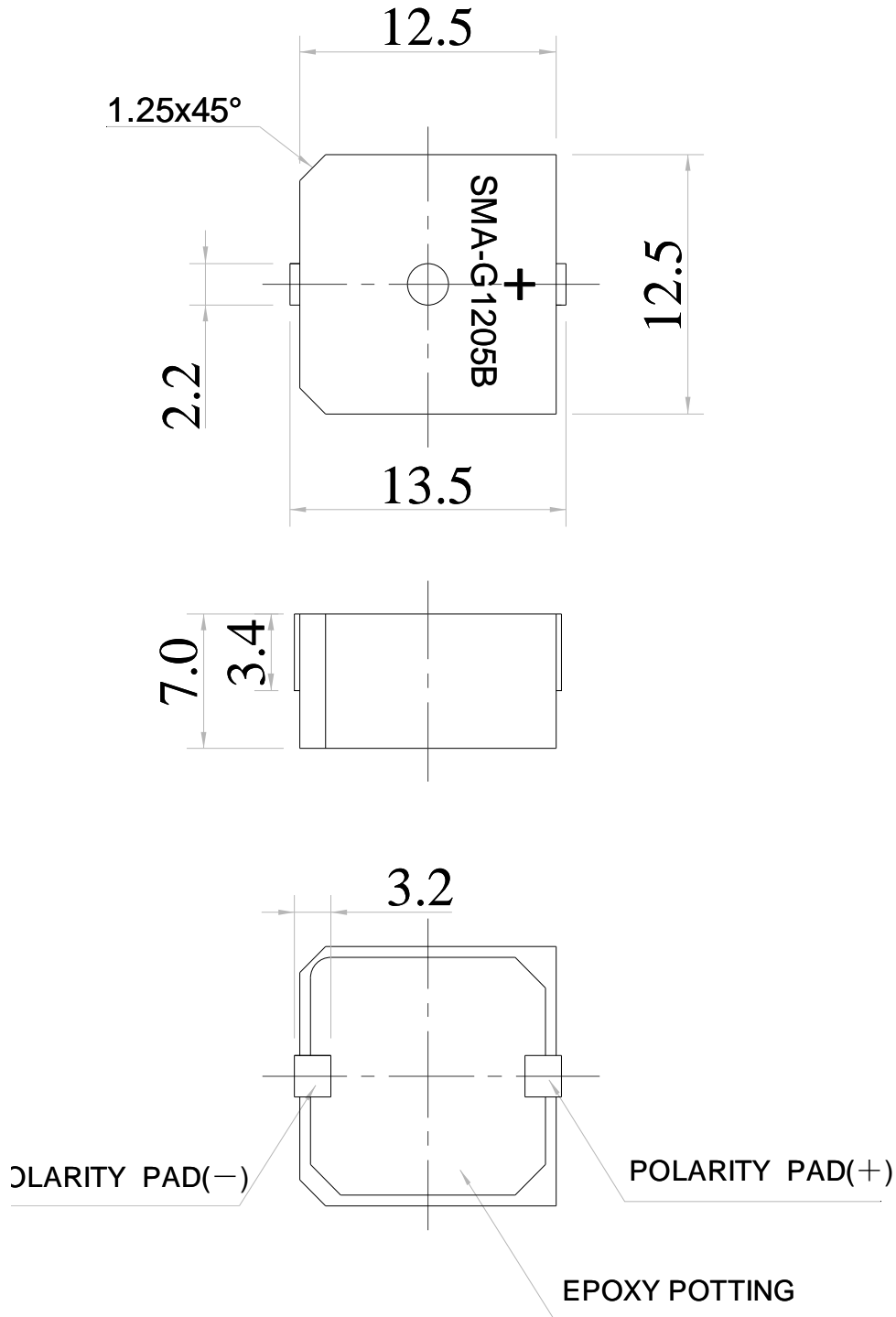
	Item	Test Condition	Specification
7.1	Dry Heat Test (Storage) 最高存储温度试验	After being placed in a chamber with $+85\pm 2^{\circ}\text{C}$ for 240 hours 在 $+85\pm 2^{\circ}\text{C}$ 的条件下放置 240 小时	The measured value shall meet Table 1. 测试数据符合表 1.
7.2	Cold Test (Storage) 最低存储温度试验	After being placed in a chamber with $-40\pm 2^{\circ}\text{C}$ for 240 hours 在 $-40\pm 2^{\circ}\text{C}$ 的条件下放置 240 小时	
7.3	Humidity 湿度试验	After being placed in a chamber with 90 to 95%R.H. at $+60\pm 2^{\circ}\text{C}$ for 240 hours. 在湿度为 90~95%R.H, 温度为 $+60\pm 2^{\circ}\text{C}$ 的条件下放置 240 小时	
7.4	Thermal Shock Test 温度冲击试验	After being placed in a chamber with $+85\pm 2^{\circ}\text{C}$ for 1 hour, then sounder shall be placed in a chamber with $-40\pm 2^{\circ}\text{C}$ for 1 hour .The changed time must be less then 20 second(This is 1 cycle) After 10 above cycles, sounder 将产品置于 $+85\pm 2^{\circ}\text{C}$ 试验箱中 1 小时, 然后将产品置于 $-40\pm 2^{\circ}\text{C}$ 试验箱中 1 小时, 转换的时间在 20 秒以内(这是一个周期) 经过 10 个周期后,	

Table 1. 表 1

	Item	Specification after test
1	Sound Pressure Level 声压	being placed in natural condition for 2 hours, shall be measured.Value $\pm 10\text{dB}$ 常温放 2 小时后, 声压初始值 $\pm 10\text{dB}$

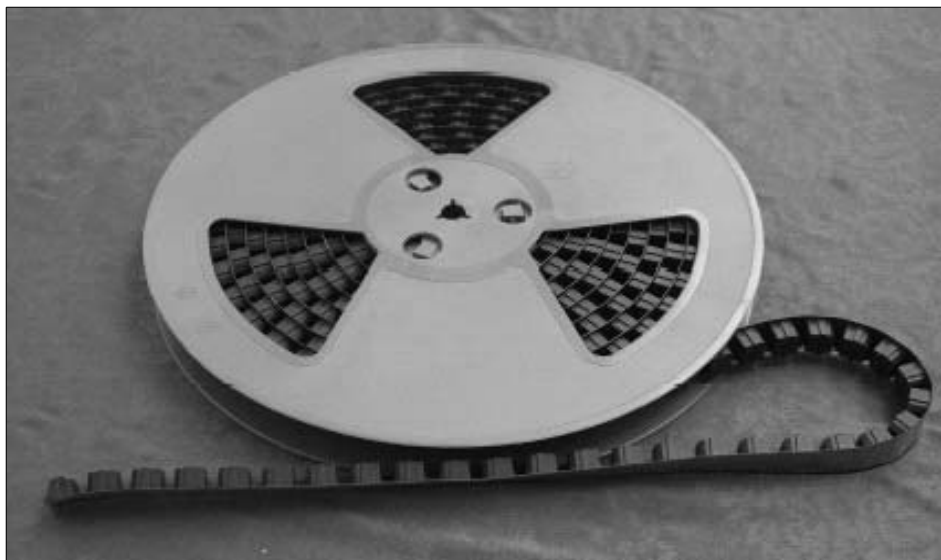
<b>SPECIFICATION</b>	Page	7 / 9
	Revision No.	1.0
Model: SMA-G1205B-K11108	Drawing No.	OEM11108R

8. Dimensions 尺寸



<b>SPECIFICATION</b>	Page	8 / 9
	Revision No.	1.0
Model: SMA-G1205B-K11108	Drawing No.	OEM11108R

9. Packing 包



<b>SPECIFICATION</b>	Page	9 / 9
	Revision No.	1.0
Model: SMA-G1205B-K11108	Drawing No.	OEM11108R

## 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.

11.5 Reflow Soldering 回流焊

