



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

HC3017-L100MM

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

30*17MM 4.0KHZ 无源压电式

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期: 2022 年 04 月 19 日 版次: A		

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1. 基本规格/General specification

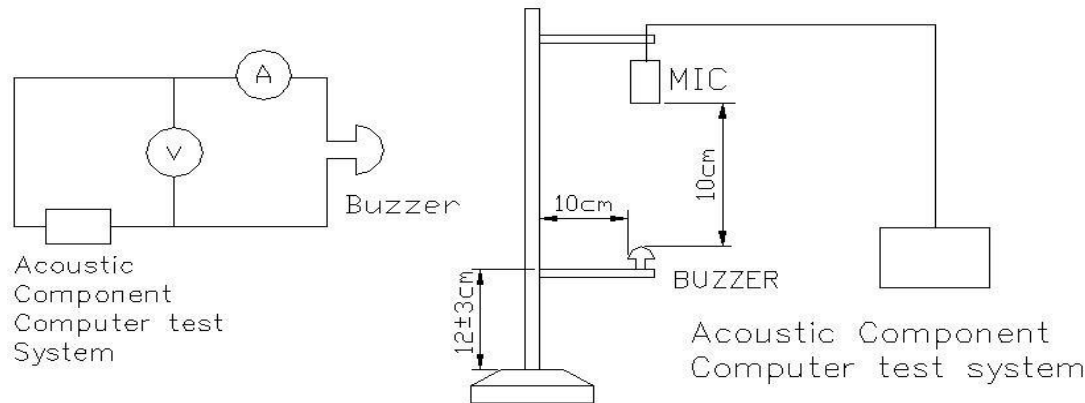
项目/Item		规格/Spec	条件/Condition
1	额定电压 Rated voltage	12V	
2	工作电压 Operation voltage	1-30V	
3	声压 Sound Pressure Level=SPL	≥ 85 at 4.0KHz Square Wave	测试环境：标准状态，标准驱动电路， 额定电压 测试距离：0.1m Standard State,Standard Drive Circuit. Rated voltage,Distance at 0.1m
4	电流 current	Max10mA	
5	振荡频率 Oscillation frequency	4000 $\pm$ 500HZ	
6	工作温度范围 Operating Temperature	-20 $\sim$ +70 $^{\circ}$ C	
7	保存温度范围 Storage temperature	-30 $\sim$ +80 $^{\circ}$ C	
8	外部尺寸 Externals size （mm）	$\Phi 29.5 * H17$	参阅附图 Refer to the attached drawing
9	重量 Mass	2g	
10	材质 Housing Material	ABS	

2.电气和声学测试条件/Electrical And Acoustical Measuring Condition

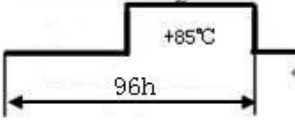
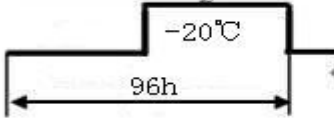
驱动电路/Recommended Driving Circuit

设置Recommended Setting

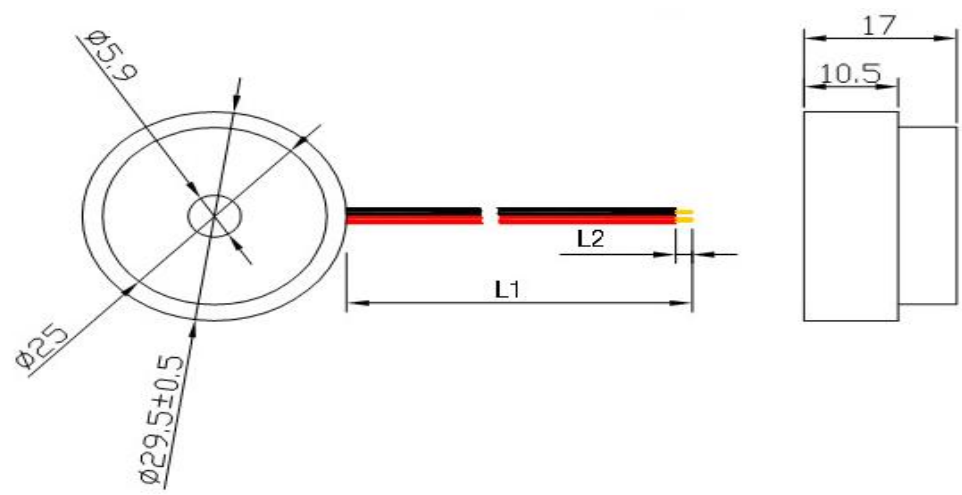
Resonant frequency, 1/2 duty cycle. Square wave.
Signal amplitude should be large enough to saturate the transistor.



3.可靠性规范/Reliability specification

项目/Item		试验条件/Test condition	判断标准/Criteria
1	高温保存试验 High	+85°C环境下放置 24 小时 Exposure to +85°C for 24 hrs.	
2	低温保存试验 Low temperature	-20°C环境下放置 24 小时 Exposure to -40°C for 24 hrs.	
3	高温试验 High temperature Shock		经过测试，符合规格，没有任何不合格的外观和性能 After the test the part shall meet specifications without any degradation.
4	低温试验 Low temperature Shock		
5	常温寿命试验 Ordinary Temp.Life	常温（25°C±10°C）电压 12V 连续测试 48 小时 Driving the sounder at 12V for 48hrs in the room temperature(25°C±10°C)	
6	高温寿命试验 High Temp.Life	高温(+85°C)电压 12V 连续测试 2 小时 Driving the sounder at 12V for 2hrs in the low temperature(+85°C)	
7	低温寿命试验 Low Temp.Life	低温(-20°C)电压12VDC连续测试2小时 Driving the sounder at 12VDC for 2hrs in the low temperature(-20°C)	
8	端子拉力试验 Lead strength	10N的拉力在端子上拉10±1秒 Pull load on the direction of the terminal axis for 10±1 sec.	
9	跌落试验 Free drop	70cm高自由掉落到厚40mm的木板上，每个方向一次 Free drop,70cm height, on wood board (t40mm)	
10	端子可焊性试验 Solderability	260±5°C焊接温度。时间：5±0.5sec。 Soldering into solderbath:Solder Temp.260±5°C Soaking Time: 5±0.5sec	端子95%必须覆盖着焊料 95% surface of lead pins must be covered with fresh solder and no soldering holes

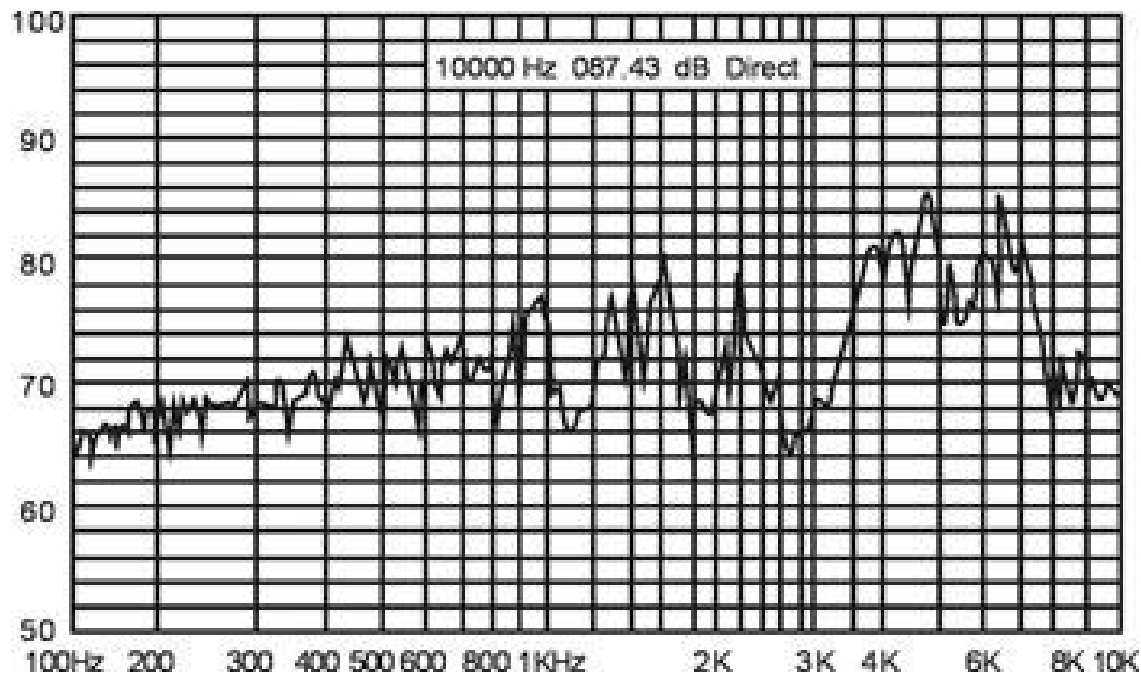
4. 尺寸图Dimension



*Unit: mm; Tolerance: $\pm 0.3\text{mm}$ Except Specified

*Housing Material: BlackABS

5. 频率响应/Frequency Response



12Vo-p 50% duty Square wave, 10cm