

To: _____

Approval Sheet for Product Specification 请 承 认 书

PRODUCT NAME	【产品名称】:	BUZZER
CUSTOMER PART NO	【客户型号】:	
QINGLONG PART NO	【我司型号】:	PA-16S
DESCRIPTION	【规格】:	16x16x2.5, 4000Hz
DRAWING NO	【产品图号】:	

【注意/note】

1. This product shall comply with RoHs. 上本品符合欧洲 RoHs 规定指令.
2. IN CASE OF CHANGES, SUCH AS DIE & MOLD, MANUFACTURING PROCESS, MATERIAL, APPEARANCE, AND INSPECTION etc., THE SAME PROCEDURE IS REQUIRED. 此部品确认后. 如模具、制造方法、材料、外观、检查等发生变更的情况下必须事前由双方进行合议。

APPROVAL SEAL (承认印):

APPROVAL SEAL (承认印):				
DISCUSS		RESOLUTION		
QA	PURCHASE	ISSUED BY	CHECKED BY	APPROVED BY

SUPPLIER: Changzhou QINGLONG Electronic Components Co., LTD

常州市青龙电子器件有限公司

(prepared seal 供应商印)

TEL(电话): 86-519-85500395 85500651

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<http://www.qinlon.com>

SIGNATURE	Issued by 担当	Checked by 核查	Approved by 确认	Date 日期
	Ma Ying	Zou Eryong	MIAO QIUYIN	2012.01.05

产 品 规 格 书

SPECIFICATION FOR BUZZER

1. SCOPE (适用)

This product specification is applied to the buzzer used for sounder in alarm systems.
(这种规格产品属于蜂鸣器广泛用于发声系统)

2. PART NUMBER (品名及贵司相关事项)

- 2-1 QINLON Part Number : PA-16S
 本司产品型号
- 2-2 Customer's Part Number :
 客户产品型号
- 2-3 Customer's Drawing Number :
 客户规格书编号

3. SPECIFICATIONS (规格)

Part No.	<u>PA-16S</u>	
Item (项目)	Specifications [规格]	Conditions[条件]
Operating voltage (Vp-p) 工作电压	1~25Vp-p	
Min Sound Pressure Level 最小输出声压	Min 81dB	At 4000Hz/3Vp-p Square Wave/10cm
Resonant Frequency (Hz) 额定频率	4.0±0.5kHz	
Rated Current (mA) 消耗电流	≤5mA	Value at 3Vp-p, square wave, 4.0kHz
Operating Temperature (°C) 工作温度	-40~+120	
Storage Temperature (°C) 储存温度	-40~+120	
Case Material/Color 外壳材料及颜色	LCP/Black	
Weight (g) 重量	1.0 g	

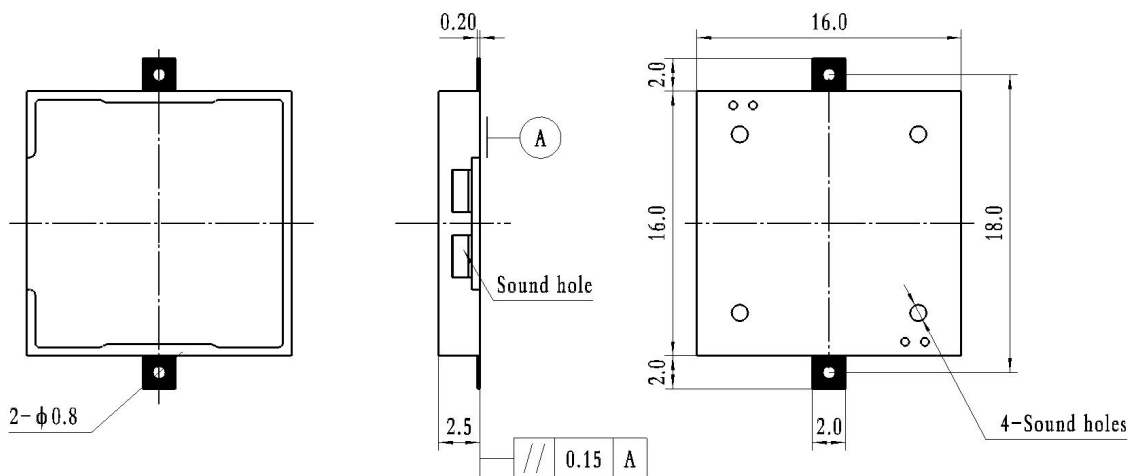
标准测试条件：温度 25±3℃，湿度 60±10% R.H.

规格书编号

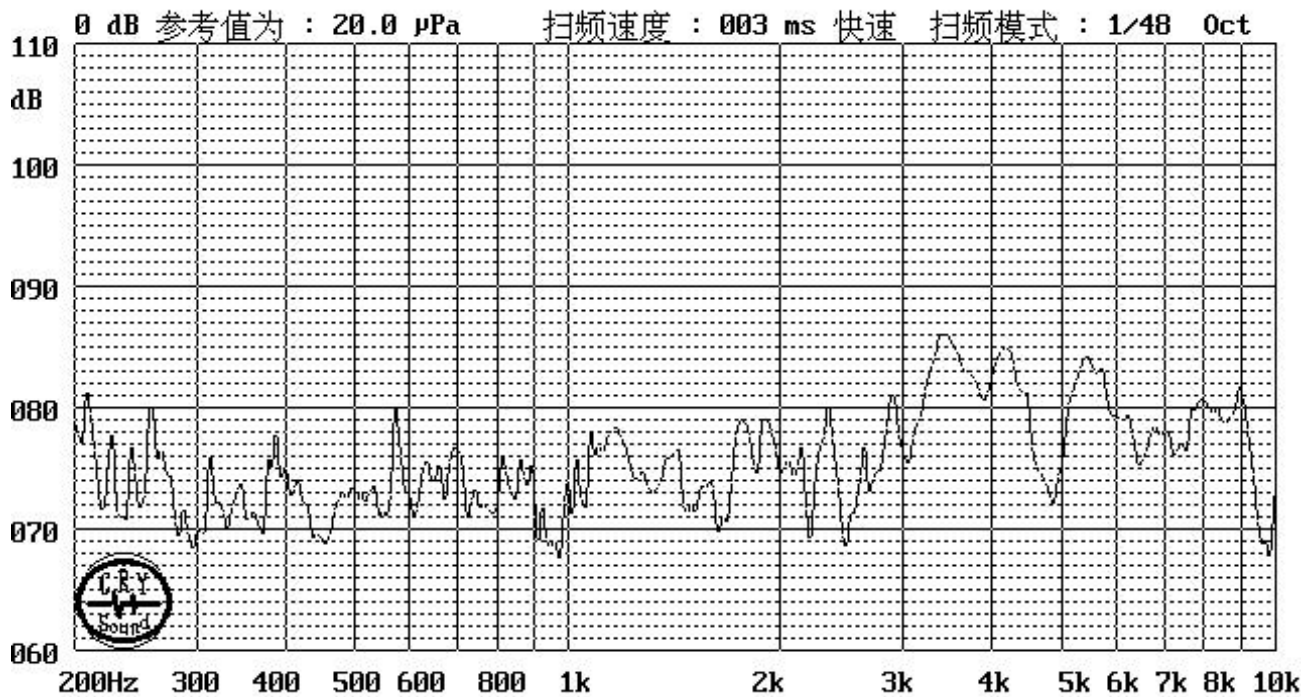
DRAWING NO: CQLD3.840.174

4. DIMENSIONS (尺寸)

Unit: mm 未注公差:±0.3

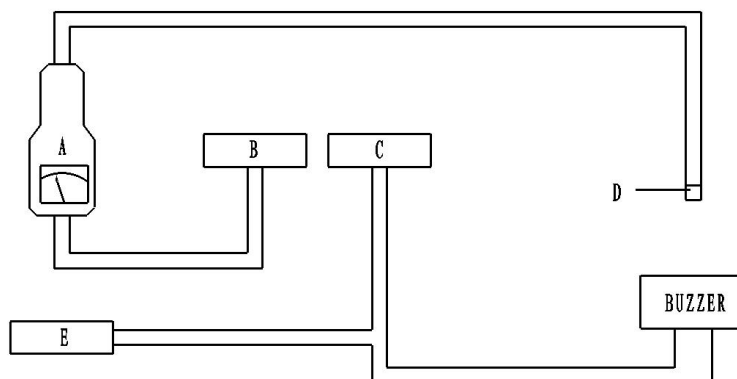


5. FREQUENCY RESPONSE (频率曲线图)



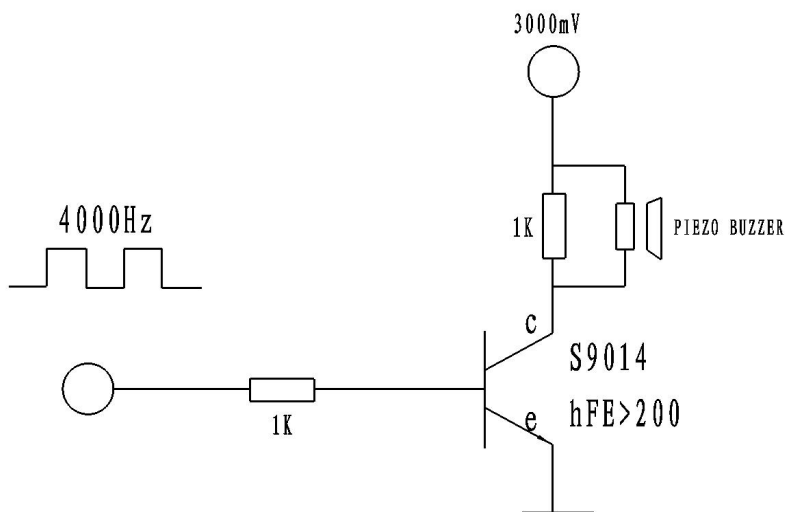
6. TEST METHOD(测试方法)

6-1. SOUND PRESSURE LEVEL, CONSUMPTION(声压测试线路图)



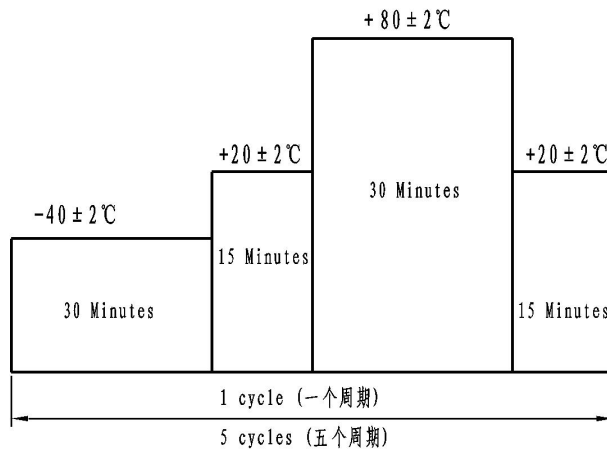
- A: Sound Pressure Level Meter 声级计
- B: Frequency Counter 频率计
- C: RC oscillator 驱动电路
- D: Sound Pressure Level For Focus 声级计传声话筒
- E: Multimeter (Amphere Meter) 信号发声器

6-2. TEST CIRCUIT (测试电路)



7. RELIABILITY TEST (可靠性试验项目)

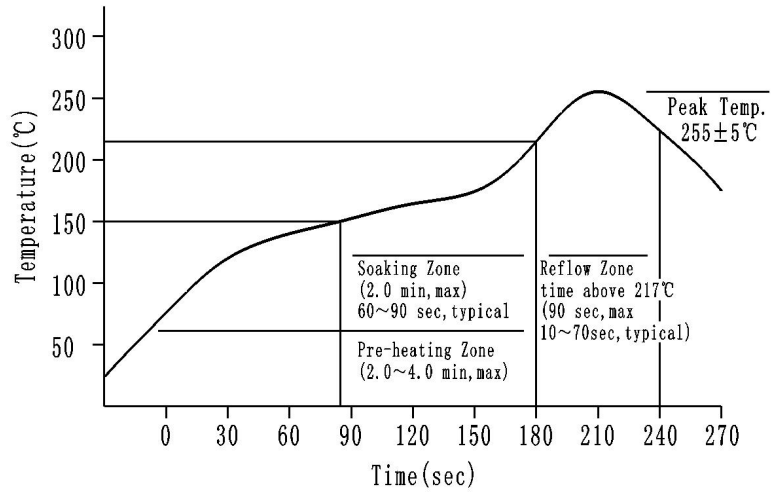
	ITEM (项目)	METHOD OF TEST (试验方法)	VARLANCE AFTER CONDITIONIN(标准)
1.	Dry Heat Test (Storage) 高温放置试验	After being placed in a chamber with $+120\pm 2^{\circ}\text{C}$ for 240 hours and then Being placed in natural condition for 4 hours, buzzer shall Be measured. 在 $+120\pm 2^{\circ}\text{C}$ 的温湿里放置 240 小时后, 再在室温下放置 4 小时后测试	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be initial value $\pm 5\text{dB}$
2.	Cold Test (Storage) 低温放置试验	After being placed in a chamber with $-40\pm 2^{\circ}\text{C}$ for 240 hours and then Being placed in natural condition for 4 hours, buzzer shall Be measured. 在 $-40\pm 2^{\circ}\text{C}$ 的温湿里放置 240 小时后, 再在室温下放置 4 小时后测试	
3.	Temperature Cycle Test 温度循环试验	Make the test for 5 cycles without applying power as fig then expose to the room temperature for 4 hours 不接电源按下图做 5 个周期试验, 然后室温下放置 4 小时再测试	
4.	Humidity Test 耐湿性试验	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2^{\circ}\text{C}$ for 240 hours and then being placed in natural condition for 4 hours, Buzzer shall be measured. 在湿度为 90—95%, 温度为 $+40\pm 2^{\circ}\text{C}$ 的温湿箱里放置 240 小时后, 再在室温下放置 4 小时后测试	
5.	Operation life test 工作寿命试验	1. High temperature life test. 240 hours continuous operation at $+120^{\circ}\text{C}$ at 3Vp-p/Duty 50% 4000Hz 2. Room temperature life test. 240 hours continuous at room temperature with 3Vp-p/Duty 50%,4000Hz 3. Low temperature life test 240 hours continuous operation at -40°C at 3Vp-p/Duty 50% 4000Hz	
6.	Vibration Resistant 耐振动性	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. 振动频率 10~55Hz, 振幅为 1.5mm, 朝 X、Y、Z 轴三个方向振动 2 小时后测试	
7.	Drop Test 跌落试验	Drop a product naturally form the height of 500mm onto the surface of 100mm thick wooden board. Two directions: This is upper and side of the product are to be applied for this drop test tespectively once. 从 500mm 高度将产品自然跌落在 100mm 厚板上按正、侧面方向各做二次跌落试验, 观察此产品能否承受跌落试验。	
8.	Solder ability (焊接试验)	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+255\pm 5^{\circ}\text{C}$ for 2 ± 0.5 seconds	



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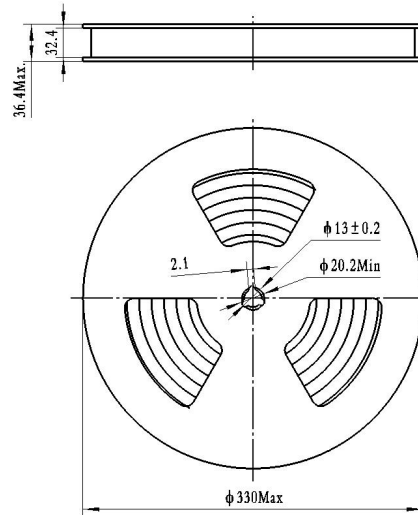
DRAWING NO: CQLD3.840.174

8. 焊接示意图 LEAD FREE REFLOW PROFILE

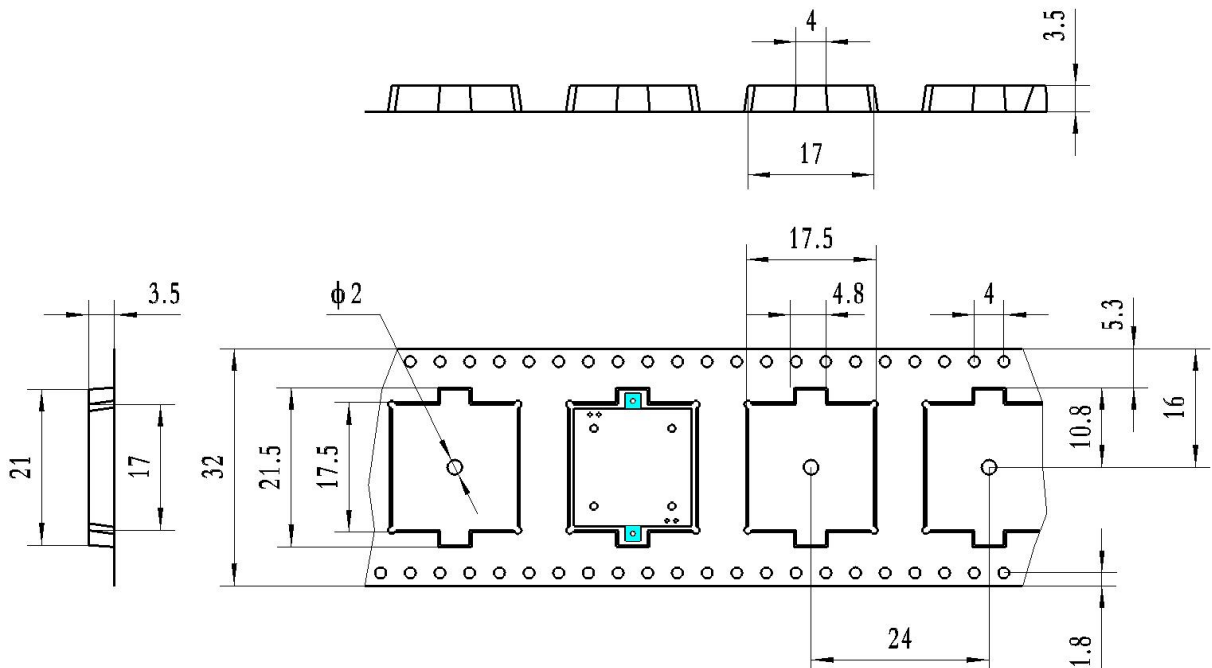


9. 包装规格 Packaging Standard

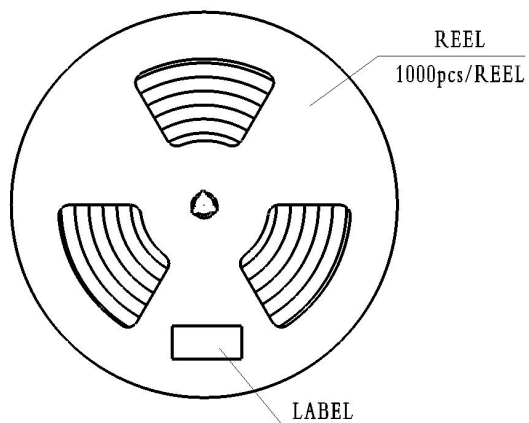
9.1, Reel



9.2 Reel packing



9.3 Carton



外包装(OUTSIDE PACKAGING): 【纸箱:350x350x255mm】
5 盘为一箱, 计 5000 只/箱(5 BALES OF A CASE.COUNT 5000PCS/CASE)

