

To: _____

Approval Sheet for Product Specification

请 承 认 书

PRODUCT NAME	【产品名称】:	<u>MAGNETIC BUZZER</u>
CUSTOMER PART NO	【客户型号】:	_____
QINGLONG PART NO	【我司型号】:	<u>YMD-12T05A(3.1)-P12</u>
DESCRIPTION	【规格】:	<u>DC5V,3.1±0.5kHz,φ12x7.5</u>
DRAWING NO	【产品图号】:	<u>91 050 1204</u>

【注意/note】

1. This product shall comply with RoHs. 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 INSPECITION 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):

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)

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SIGNATURE	Issued by 担当	Checked by 核查	Approved by 确认	Date 日期
	Wei Panfei	Zou Eryong	Miao Qiuyun	2018.10.04

产 品 规 格 书

SPECIFICATION FOR BUZZER

1. SCOPE (适用)

This product specification is applied to the magnetic 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 : YMD-12T05A(3.1)-P12

本产品型号

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

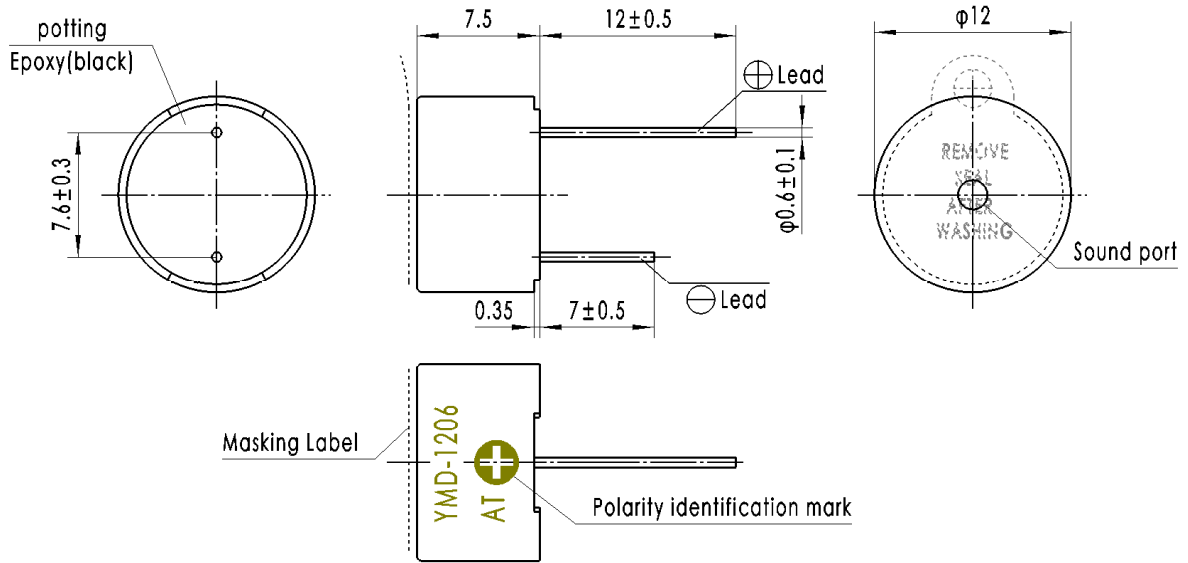
3. SPECIFICATIONS (规格)

Part No.	YMD-12T05A(3.1)-P12	
Item (项目)	Specifications [规格]	Conditions[条件]
Rated voltage(VDC) 额定电压	5	
Operating voltage(VDC) 工作电压	3~7	
Rated Current(mA) 额定电流	≤30	
Sound output(dB) 输出声压级	≥80	DC5V, 10cm
Resonant Frequency(Hz) 谐振频率	3100±500	DC5V, 10cm
Operating Temperature(°C) 工作温度	-40~+85	
Storage Temperature(°C) 储存温度	-40~+85	
Case Material/Color 外壳材料及颜色	SEIGFN2	PBT/Black
Weight (g) 重量	1.5	

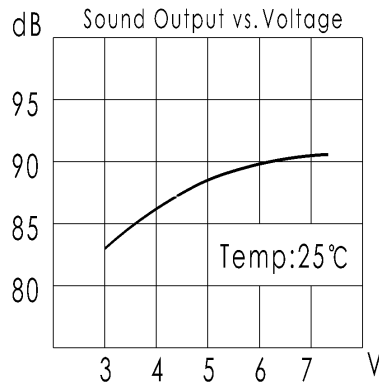
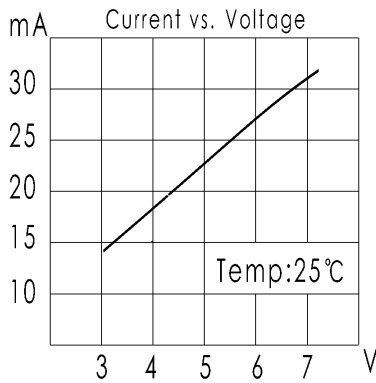
标准测试条件: 温度 25±3°C, 湿度 60±10% R.H.

4. DIMENSIONS (尺寸)

Unit: mm 未注公差: ±0.5

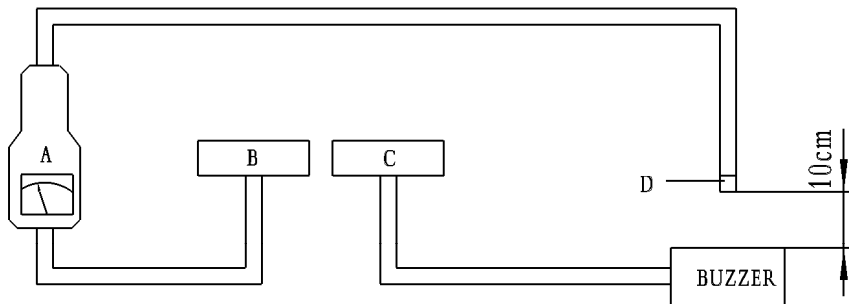


5. CHARACTERISTIC RESPONSE (特性曲线图)



6. TEST METHOD (测试方法)

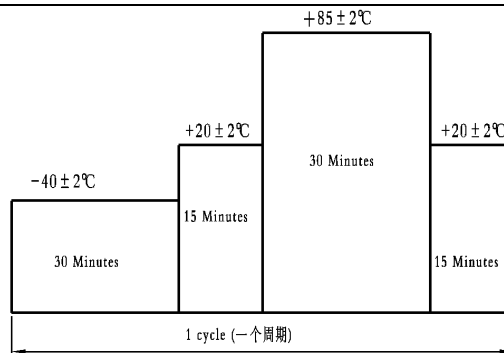
SOUND PRESSURE LEVEL, CONSUMPTION (声压测试线路图)



- A: Sound Pressure Level Meter 声级计
- B: Frequency Counter 频率计
- C: Direct-Current (DC) Supply Unit 直流电源装置
- D: Sound Pressure Level For Focus 声级计传声话筒

7. RELIABILITY TEST (可靠性试验项目)

	ITEM (项目)	METHOD OF TEST (试验方法)	VARIANCE AFTER CONDITIONIN (标准)
1.	Dry Heat Test (Storage) 高温放置试验	After being placed in a chamber with $+85\pm 2^{\circ}\text{C}$ for 240hours and then Being placed in natural condition for 2 hours, buzzer shall Be measured. 在 $+85\pm 2^{\circ}\text{C}$ 的试验箱里放置 240 小时, 然后在室温下放置 2 小时后, 进行测试。	After test(1-7item), the transducer S.P.L. difference shall be within $\pm 10\text{dB}$, and the appearance not exist any change to be harmful to normal operation(e.g. cracks, rusts, damages and especially distortion). 在1-7项试验后, 声响器的声压变化值在 $\pm 10\text{dB}$ 之内, 外观无变化(例如: 开裂、生锈、损伤、变形等现象)。
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 2 hours, buzzer shall Be measured. 在 $-40\pm 2^{\circ}\text{C}$ 的试验箱里放置 240 小时, 然后在室温下放置 2 小时后, 进行测试。	
3.	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 96 hours and then being placed in natural condition for 2 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 96 小时后, 然后在室温下放置 2 小时后, 进行测试。	
4.	Temperature Cycle Test 温度循环试验	Make the test for 10 cycles without applying power as fig then expose to the room temperature for 4 hours. 不接电源按下图做 10 个周期试验, 然后室温下放置 4 小时再测试。	
5.	Vibration Resistance 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.	Drop Test 跌落试验	Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor. 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。	
7.	Operation life test 工作寿命试验	High temperature life test. 240 hours continuous operation at $+80^{\circ}\text{C}$ at 5VDC 在 $+80\pm 2^{\circ}\text{C}$ 的试验箱里, 蜂鸣器两端通电[5VDC]240 小时。	
8.	Solderability (可焊性试验)	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+260\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds. Pin solder coating surface should be smooth and bright. 插针浸入松香 5 秒, 然后再浸入 $+260\pm 5^{\circ}\text{C}$ 的锡炉中 3 ± 0.5 秒。 插针表面应覆盖一层光滑明亮的焊锡。	
9.	Terminal Strength Pulling 插针强度试验	The force 10 seconds of 9.8N is applied go each terminal in axial direction. 插针应承受9.8N拉力, 拉力时间10秒, 插针无松动和脱落等现象。	



8. SOLDERING CONDITION(焊接条件)

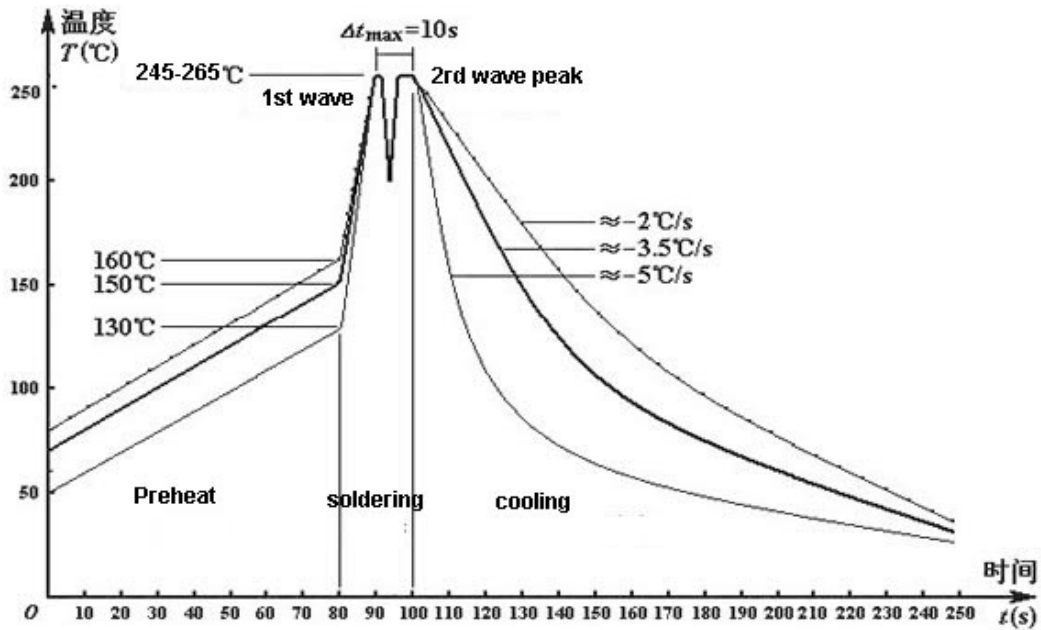
(1) Dip Soldering

Dip Soldering temperature 260°C within 5sec.
Temperature should beset as low as possible.
Time Should be set as short as possible.

(2) Manual Soldering

Manual soldering temperature 350°C within 3sec.

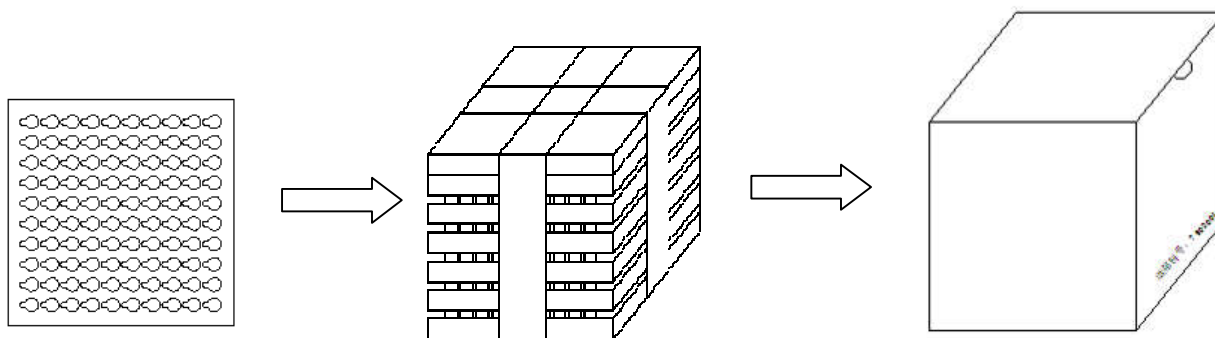
Brief reference wave soldering (参考波峰焊简介图)



9. 包装规格 Packaging Standard

9.1 内包装(INSIDE PACKAGING) : 【珍珠棉 : 180x180x20 mm , 包装盒 : 200x200x200 mm】

一盒(ONE BOX) : 500 只



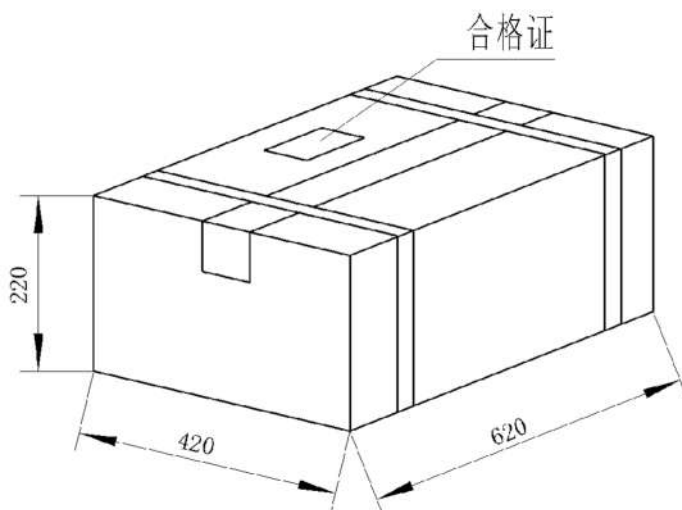
100pcs/Tray

5 Tray

500pcs/inner carton

9.2 外包装(OUTSIDE PACKAGING) : 【纸箱:620x420x220mm】

6 盒为一箱 , 计 3000 只/箱(6 BALES OF A CASE.COUNT 3000PCS/CASE)



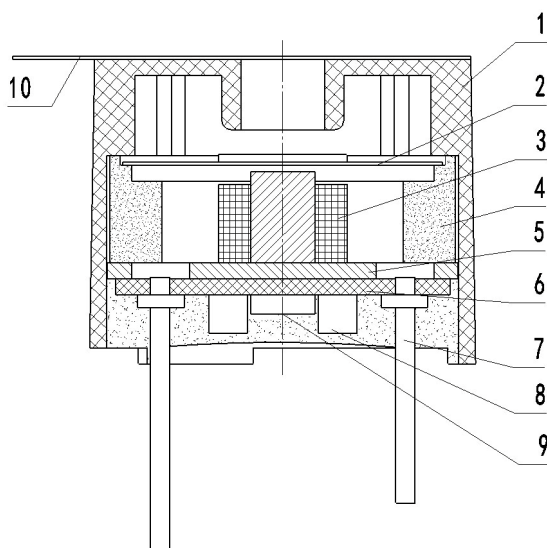
6*500pcs(=3000pcs)/outer carton

P/O NO.

NAME	BUZZER
TYPE	YMD-12T05 (3.1) -P12
PART NO.	
QTY	3000PCS
SIZE	624x420x220
LOT NO.	

附图 1. Appendix 1.
 构造图及材料表
 Configuration and Material

构造图 Configuration



材料表 Material

序号 No.	部件 PARTS	原料 MATERIAL	备注 REMERK
1.	塑壳-外壳 Case	Black PBT	
2.	振动膜片 Vibrating diaphragm	铁镍合金[NI-FE Alloy]	
3.	线圈 Coil	自粘漆包线 QAN 0.04	
4.	磁铁 Magnet	永磁[Permanent Magnet]	
5.	T 铁	电工纯铁[Sofe magnetic iron]	
6.	PCB 板	PCB-Epoxy	
7.	端子(Pin Terminal)	磷青铜 (表面镀锡) Phosphor Bronze (Surface Treatment: Sn)	
8.	三极管 SMD triode	L6+9014	数量: 2
9.	电阻 SMD resistor	0805	
10.	贴纸 Masking Label	φ 12	

