

规格书编号

DRAWWING NO :

To: _____

Approval Sheet for Product Specification

请 承 认 书

PRODUCT NAME 【产品名称】: SMT BUZZER

CUSTOMER PART NO 【客户型号】: _____

QINGLONG PART NO 【我司型号】: FDYX-0520S-03
FDYX-0530S-03

DESCRIPTION 【规 格】: 5X5X(2~3)mm

DRAWWING 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 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

Manufacturer :FengDar Accoustic Technology Co.,Ltd

(QINGLONG Electronic Components Co.,Ltd)

ADD: No.163-4 Dongfang East Road ,Changzhou ,Jiangsu Province,P.R.China

SIGNATURE	Issued by	Checked by	Approved by	Date
	担当	核查	确认	日期
	XUJIYE	Zou Eryong	MIAO QIUYIN	2018.06.24

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产 品 规 格 书

SPECIFICATION FOR BUZZER

SCOPE (适用)

This product specification is applied to the buzzer used for sound indicated systems.

(这种规格产品属于蜂鸣器广泛用于发声系统)

PART NUMBER (品名及贵司相关事项)

SPECIFICATIONS (规格)

Part No.	<u>FDYX-0520S-03</u>	<u>FDYX-0530S-03</u>
Rated voltage (Vp-p) 额定电压	3.0Vp-p	3.0Vp-p
Operating voltage (Vp-p) 工作电压	2~5Vp-p	2~5Vp-p
Coil impedance (Ω) 直流阻抗	12 \pm 3 Ω	12 \pm 3 Ω
Sound output(dB) 输出声压级	Min.75 Typ.82	Min.78 Typ.82
Resonant Frequency (Hz) 额定频率	4000Hz \pm 100Hz	4000Hz \pm 100Hz
Operating Temperature ($^{\circ}$ C) 工作温度	-40~+85	-40~+85
Storage Temperature ($^{\circ}$ C) 储存温度	-40~+85	-40~+85

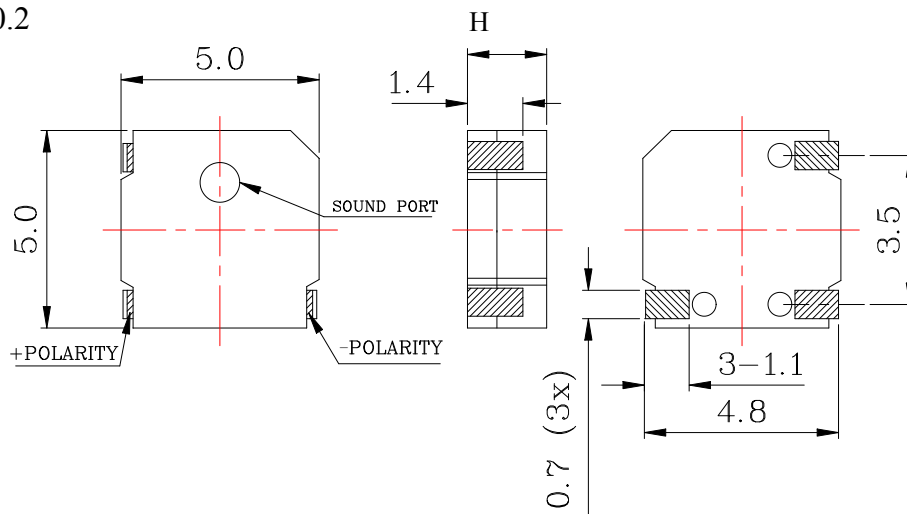
标准测试条件：温度 25 \pm 3 $^{\circ}$ C，湿度 60 \pm 10% R.H.

规格书编号

DRAWING NO :

DIMENSIONS (尺寸)

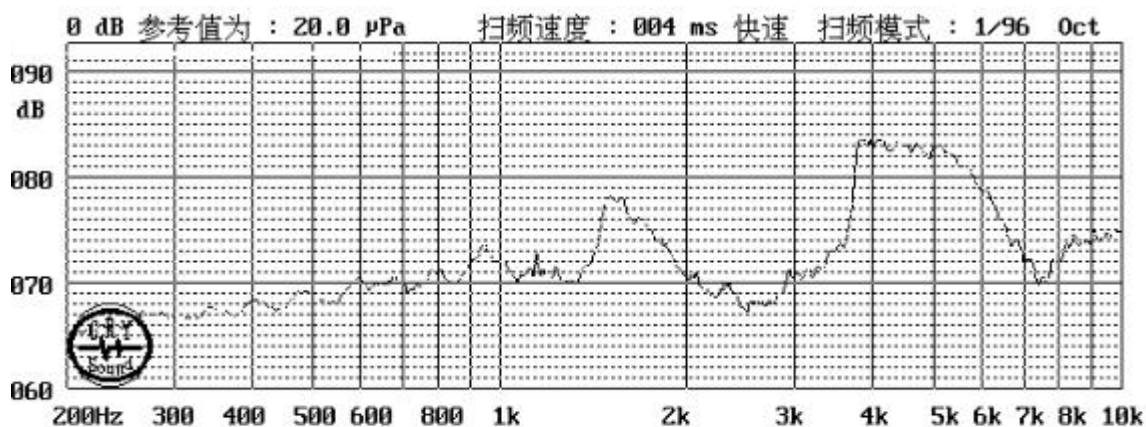
Unit: mm Tol:±0.2



FDYX-0520S-03 H:2.0±0.2

FDYX-0530S-03 H:3.0±0.2

FREQUENCY RESPONSE (频率曲线图)



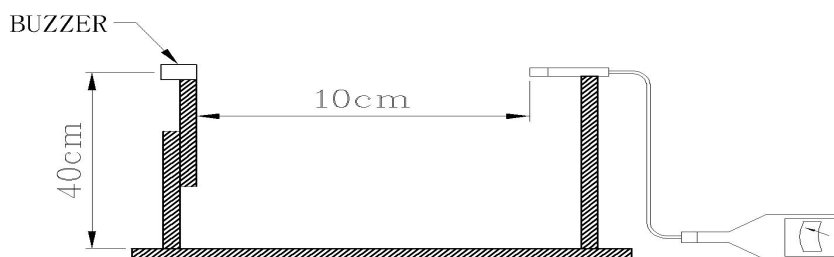
TEST CONDITIONS :

AT 3.0Vp-p, 10cm TEMPERATUER : 20 °C±5°C

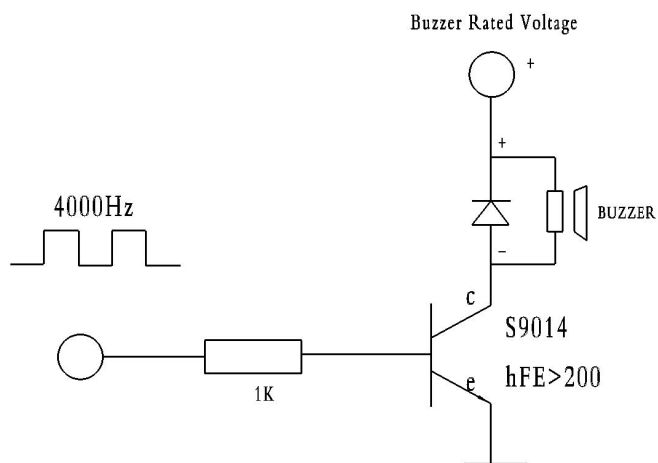
HUMIDITY 60%~70%

6. TEST METHOD(测试方法)

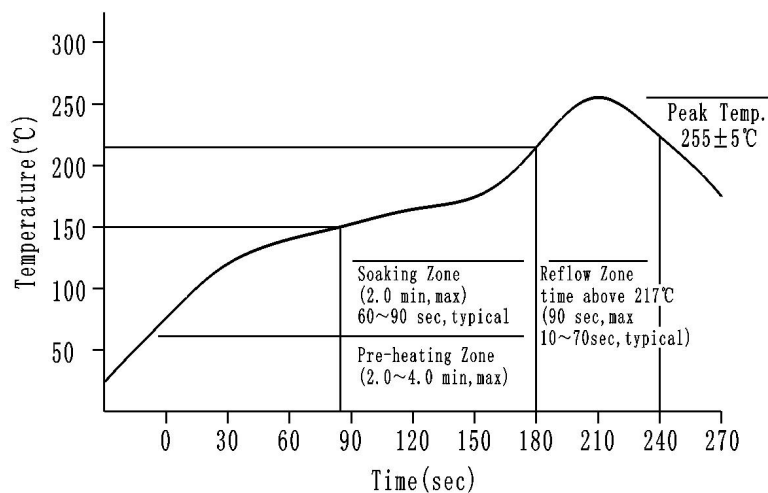
6-1. SOUND PRESSURE LEVEL, (声压测试)



6-2. TEST CIRCUIT (测试电路)

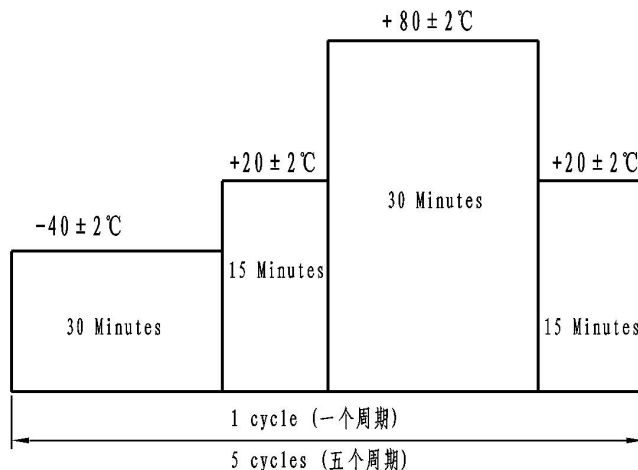


7. Recommendable reflow soldering condition



8. RELIABILITY TEST (可靠性试验项目)

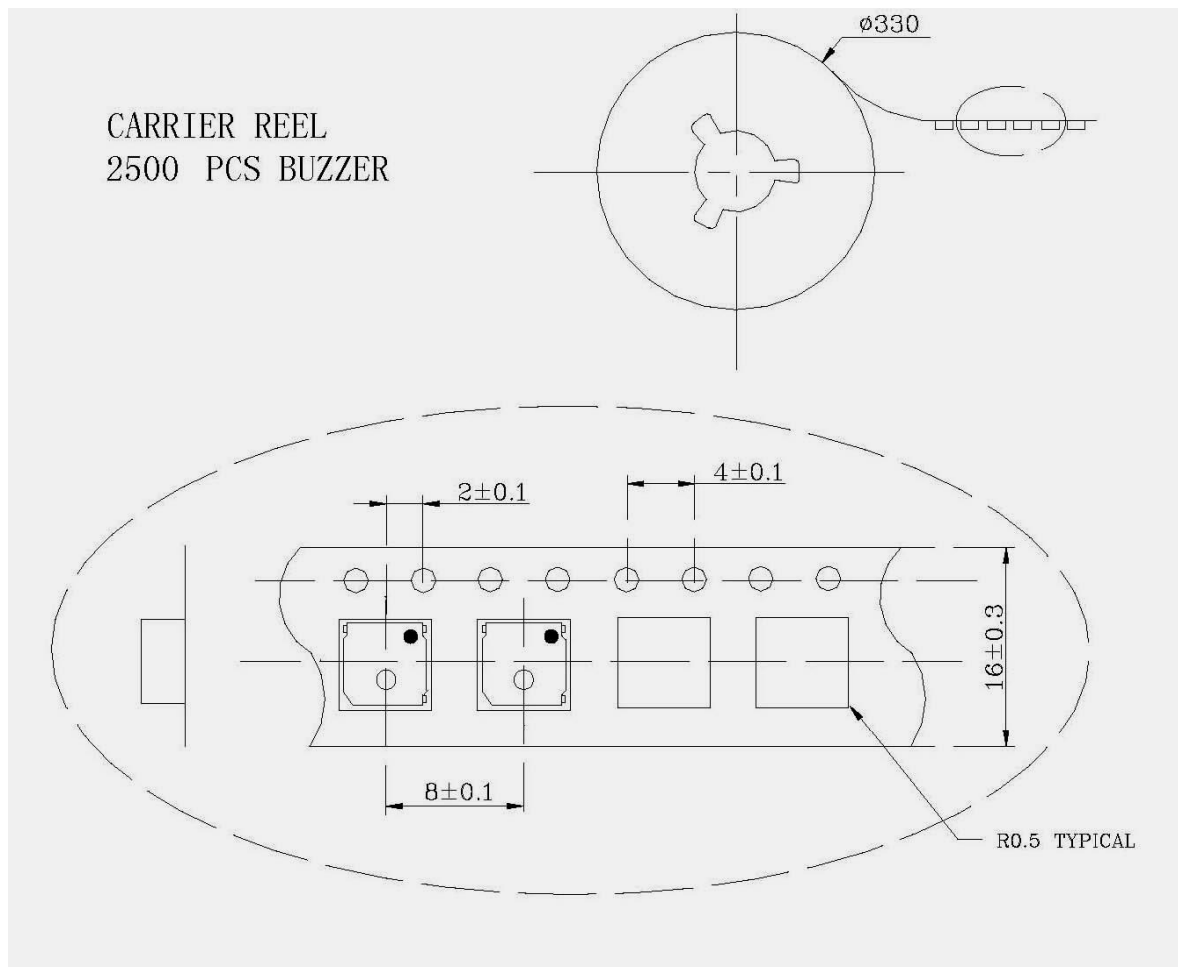
	ITEM (项目)	METHOD OF TEST (试验方法)	VARLANCE AFTER CONDITIONIN(标准)
1.	Dry Heat Test (Storage) 高温放置试验	After being placed in a chamber with +85±2°C for 240 hours and then Being placed in natural condition for 4 hours, buzzer shall Be measured. 在+85±2°C的温湿里放置 240 小时后，再在室温下放置 4 小时后测试	The value of resonant frequency/current consumption should be in ± 10% compared with initial ones. The SPL should be 78dB
2.	Cold Test (Storage) 低温放置试验	After being placed in a chamber with -40±2°C for 240 hours and then Being placed in natural condition for 4 hours, buzzer shall Be measured. 在-40±2°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±2°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±2°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 +105°C at 5.0Vp-p/Duty 50% 4000Hz 2. Room temperature life test. 240 hours continuous at room temperature with 5.0Vp-p/Duty 50%,4000Hz 3. Low temperature life test 240 hours continuous operation at -40°C at 5.0Vp-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 respectively 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±5°C for 2±0.5 seconds	



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9. 包装规格 Packaging Standard



外包装(OUTSIDE PACKAGING): 【纸箱:370x350x360mm】

10 盘为一箱, 计 25k 只/箱(10 BALES OF A CASE.COUNT 25k PCS/CASE)

