

MESSRS :

SPECIFICATION FOR APPROVAL

产品规格书

DESCRIPTION : SMD BUZZER

PART NO. : HYR-1240A-75

USER'S PART NO. :

DATE : 2019/3/30

CUSTOMER APPROVED :

Approved By	Checked By	Made By
钱万进	易申	吕玲

兴化市华宇电子有限公司

XINGHUA HUAYU ELECTRONICS CO., LTD

地址：江苏省兴化市陈堡工业区人民路1号
TEL:13625199874 ; FAX:+86-523-83723118
Http://www.js-huayu.com E-mail: 391245375@qq.com

1. APPLICATION RANGE (应用范围)

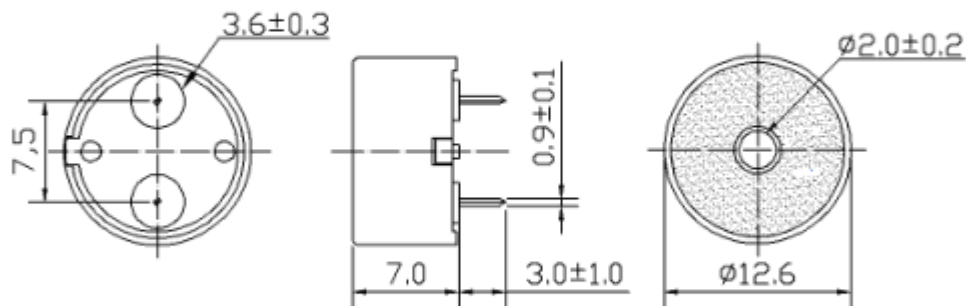
This product specification is applied to the piezoelectric buzzer used for sounder in alarm systems. (产品属于压电蜂鸣器, 广泛应用于发声系统)。

2. SPECIFICATIONS (规格)

Standard test condition: Temperature of $25 \pm 3^\circ\text{C}$, humidity $60 \pm 10\%$ R.H.

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

型号	Part Number	HYR-1240A-75	
谐振频率	Resonance Frequency	Hz	4000 ± 500
声压	Sound Pressure Level	dB	85 min. At 4.0kHz Square wave/6.0Vp-p/10cm
自由电容	Free Capacitance	pF	$10,000 \pm 50\%$ at 100Hz
输入电压	Input Voltage	Vp-p	30 max. Sine wave
消耗电流	Current Consumption	mA	6Vp-p 8mA max
工作温度	Operating Temperature	$^\circ\text{C}$	$-20 \sim +70$
贮存温度	Storage Temperature	$^\circ\text{C}$	$-30 \sim +80$
尺寸	Dimension	As shown in Figure	
基片材料	Plate material	Brass	
外壳材料	Case material	PBT	
插针材料	Pin material	Phosphor bronze	



Unit:mm 未注公差: ± 0.5

3. FREQUENCY RESPONSE (频率响应曲线图)

12/10/2012 22:49

CRY6125F 蜂鸣器测试仪 V91

无框 滤波器1次

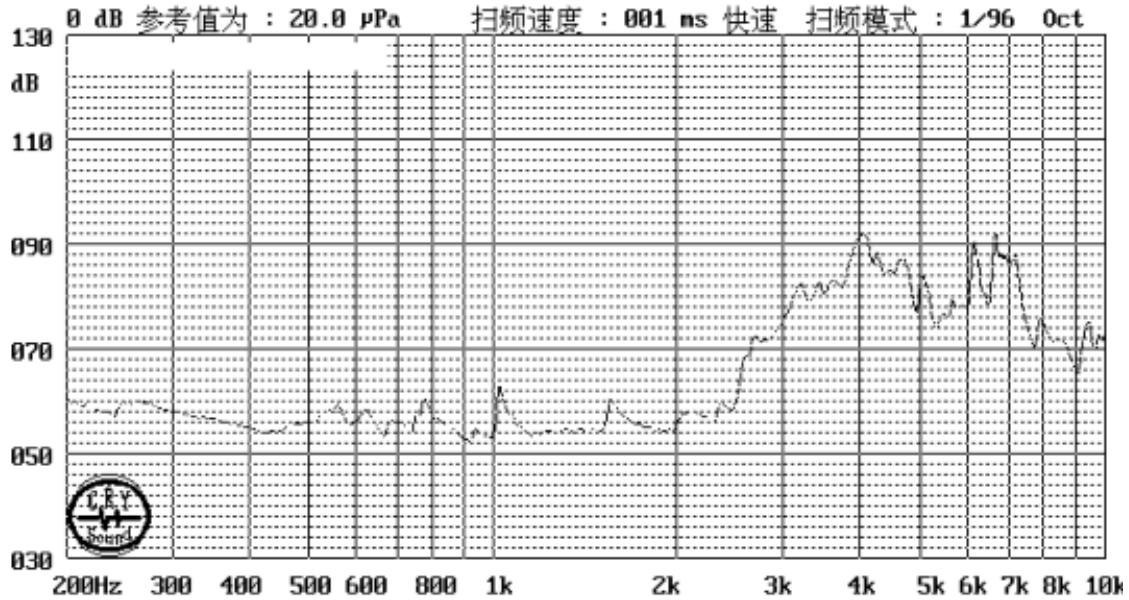
型号:

Fc= 4000 Hz 091.35 dB

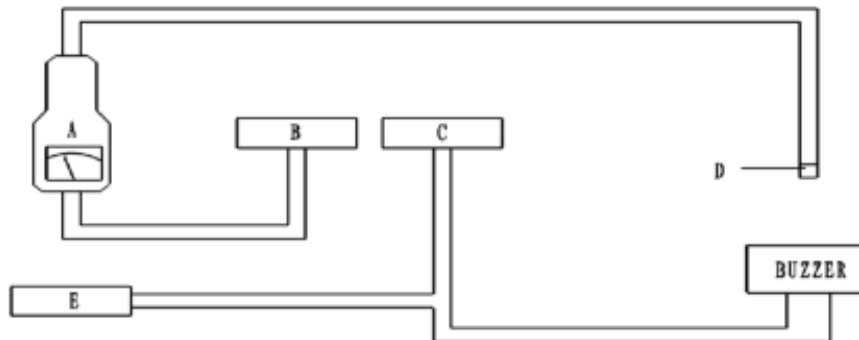
方波

电压:3000 mV

Fo= 6651 Hz 092.55 dB



4. SOUND PRESSURE TESTING CIRCUIT DIAGRAM (声压测试线路图)



A: Sound Pressure Level Meter 声级计

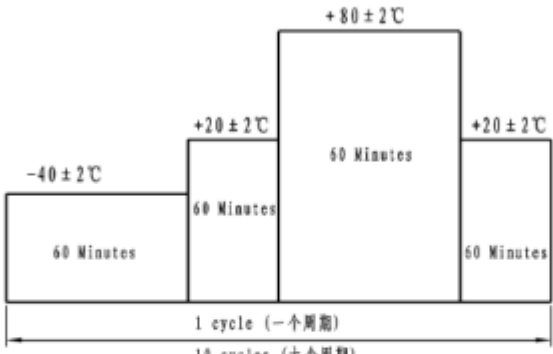
B: Frequency Counter 频率计

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

5. RELIABILITY TEST (可靠性试验)

序号	ITEM (项目)	METHOD OF TEST (试验方法)	VARLANCE AFTER CONDITIONIN(标准)
1	Dry Heat Test (Storage) 高温储存试验	After being placed in a chamber with $80 \pm 2^\circ\text{C}$ for 240 hours and then Being placed in natural condition for 4 hours, buzzer shall Be measured. 在 $80 \pm 2^\circ\text{C}$ 的试验箱里放置240小时, 然后在室温下放置4小时后测试。	Sound Pressure Level (Specification after test): Initial Value $\pm 10\text{dB}$. 声压(试验后变化量): 初始值 $\pm 10\text{dB}$.
2	Cold Test (Storage) 低温储存试验	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 $-40 \pm 2^\circ\text{C}$ 的试验箱里放置240小时后, 然后在室温下放置4小时后测试。	
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 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, 然后在室温下放置4小时后测试。	
4	Temperature Cycle Test 温度循环试验	<p>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, 然后在室温下放置4小时再测试。</p> 	
5	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 $10 \sim 55\text{Hz}$, 振幅为1.5mm, 朝X、Y、Z轴三个方向振动2小时后测试。	

6	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。	Sound Pressure Level (Specification after test): Initial Value ± 10 dB. 声压(试验后变化量): 初始值 ± 10 dB。
7	Soldering Heat Resistance 耐焊接热试验	Lead terminal are immersed up to 1.5mm from buzzer' s body in solder bath of 260℃ for 10 seconds, and then buzzer shall be measured after being placed in natural condition for 4 hours. 将插针端子浸入260℃的焊料至距离蜂鸣器本体1.5mm, 持续10秒, 然后在室温下放置4小时后测试。	
8	Solder ability 可焊性	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 250℃ for 3 seconds. 将插针端子进入松香助焊剂5秒, 然后浸入250℃的焊料中3秒。	95%min. lead terminals shall be wet with solder. (Except the edge of terminal) 上锡面积 $\geq 95\%$ 。
9	Terminal Strength Pulling 端子强度	The force 10 seconds of 9.8N is applied to each terminal in axial direction. 插针端子能承受9.8N的负荷10秒。	No visible damage and cutting off. 端子没有明显的损伤和断裂、脱落。

6. PACKING INFORMATION (包装信息)

1 盒 (box) = 100pcs/板 (pearl cotton vest) \times 10 板 (pearl cotton vest) = 1000pcs

1 箱 (carton) = 1000pcs/盒 (box) \times 12 盒 (box) = 12000pcs

