MESSRS:

SPECIFICATION FOR APPROVAL

产品规格书

DESCRIPTION : PIEZO TRANSDUCER

PART NO. : HYR-1240A

USER'S PART NO. :

DATE : 2014/12/19

CUSTOMER APPROVED:

Approved By	Checked By	Made	By

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 电话: 0523-83723110 传真: 0523-83723118

邮箱: china hydz@163.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)。

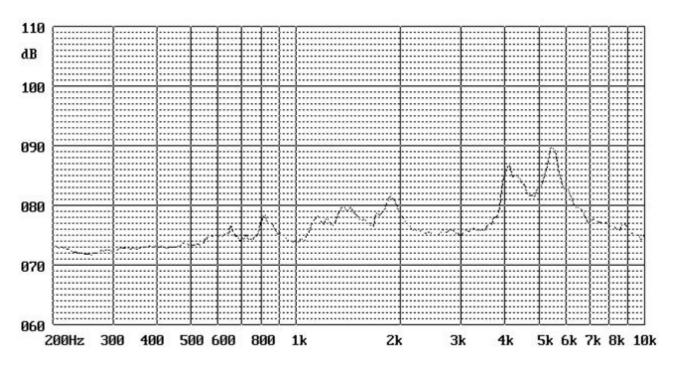
2. SPECIFICATIONS (规格)

Standard test condition: Temperature of 25 ± 3 °C, humidity 60 ± 10 % R.H. (标准测试条件,温度 25 ± 3 °C,湿度 60 ± 10 % R.H.)。

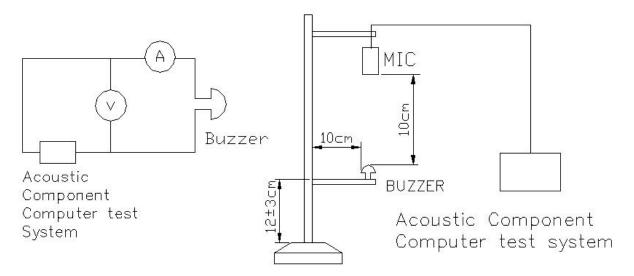
(标准测试条件: 温度25±3℃, 湿度60±10% R.H)。				
型号	Part Number		HYR-1240A	
谐振频率	Resonance Frequency	Hz	4000±500	
声 压	Sound Pressure Level	dB	85min. At 4kHz Square wave/6.0Vp-p/10cm	
自由电容	Free Capacitance	pF	9000±30% at 100Hz	
输入电压	Input Voltage	Vp-p	25 max. Sine wave	
消耗电流	Current Consumption	mA	6Vp-p 8mA max	
工作温度	Operating Temperature	${\mathfrak C}$	−20 ~ +70	
贮存温度	Storage Temperature	${\mathfrak C}$	−30 ~ +85	
尺寸	Dimension		As shown in Figure	
基片材料	片材料 Plate material		Brass	
外壳材料	气材料 Case material		PBT	
插针材料	料 Pin material		Phosphor bronze	
\$0±0\(\frac{2}{5}\)				

7.0±0.5

3. FREQUENCY RESPONSE(频率响应曲线图)



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



4. RELIABILITY TEST (可靠性试验)

序			VARLANCE AFTER
号	ITEM (项目)	METHOD OF TEST (试验方法)	CONDITIONIN(标准)
1	Dry Heat Test (Storage) 高温储存试验	After being placed in a chamber with 80 ± 2 °C for 2 hours and then Being placed in natural condition for 2 hours, buzzer shall Be measured. 在80±2°C的试验箱里放置2小时,然后在室温下放置2小时后测试。	
2	Cold Test (Storage) 低温储存试验	After being placed in a chamber with -30 ± 2 °C for 20 hours and then Being placed in natural condition for 2 hours, buzzer shall Be measured. 在 -30 ± 2 °C的试验箱里放置20小时后,然后在室温下放置2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±2℃ 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℃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	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。 +80±2℃ 60 Minutes 1 cycle (一个周期) 10 cycles (十个周期)	Sound Pressure Level (Specification after test): Initial Value±10dB. 声压(试验后变化量):初始值±10dB。
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10~55Hz,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	Drop a product naturally form the height of 1000mm	Sound Pressure Level

跌落试验		onto the surface of 100mm thick wooden board. Two	(Specification after
	directions: This is upper and side of the product an		test):
to be applied for this drop test tespectively once.		Initial Value ± 10 dB.	
		从1000mm高度将产品自然跌落在100mm厚板上按正、侧面	声压(试验后变化量):初
		方向各做二次跌落试验,观察此产品能否承受跌落试验。	始值±10dB。
7		Lead terminal are immersed up to 1.5mm from buzzer's	
	Soldering	body in solder bath of 260°C for 10 seconds, and then	
	Heat	buzzer shall be measured after being placed in	
'	Resistance	natural condition for 4 hours.	
	耐焊接热试验	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。	
		Lead terminals are immersed in rosin for 5 seconds	95%min. lead terminals
8	Solder	and then immersed in solder bath of 250°C for 3	shall be wet with
	ability	seconds.	solder.(Except the
	可焊性	将插针端子进入松香助焊剂5秒,然后浸入250℃的焊料中	edge of terminal)
		3秒。	上锡面积≥95%。
9	Terminal	The face 10 1 of 0 0N in annial to anh	No visible damage and
	Strength	The force 10 seconds of 9.8N is applied to each	cutting off.
	Pulling	terminal in axial direction.	端子没有明显的损伤和
	端子强度	插针端子能承受9. 8N的负荷10秒。 	断裂、脱落。

4. PACKING INFORMATION (包装信息)

1盒(box)=100pcs/板(pearl cotton vest)×5板(pearl cotton vest)=500pcs

1箱 (carton) =500pcs/盒 (box) ×20盒 (box) =10000pcs

