



GAIA TECH

Data Sheet

Customer:

Part No:

Sample No:

Description:

Item No:

GTR-1707-10NL

BUZZER

Customer			
Check	Inspection	Approval	Date



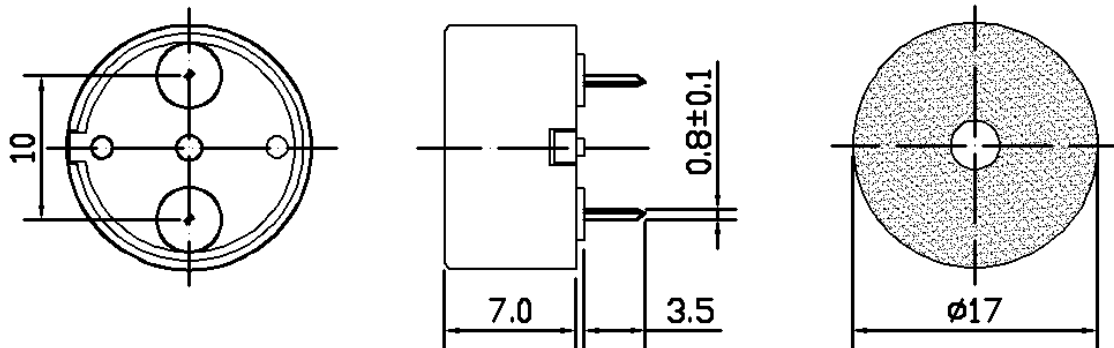
1. APPLICATION RANGE

This product specification is applied to the piezoelectric buzzer used for sounder in alarm systems.

2. SPECIFICATIONS

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

型 号	Part Number		HYR-1707
谐振频率	Resonance Frequency	Hz	4000 ± 500
声 压	Sound Pressure Level	dB	88min. At 4.0kHz Square wave/6.0Vp-p/10cm
自由电容	Free Capacitance	pF	$14,000 \pm 30\%$ at 100Hz
输入电压	Input Voltage	Vp-p	30 max. Sine wave
消耗电流	Current Consumption	mA	6.0Vp-p 3mA 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

12/03/2014 10:02

CRY6125F 蜂鸣器测试仪 V91

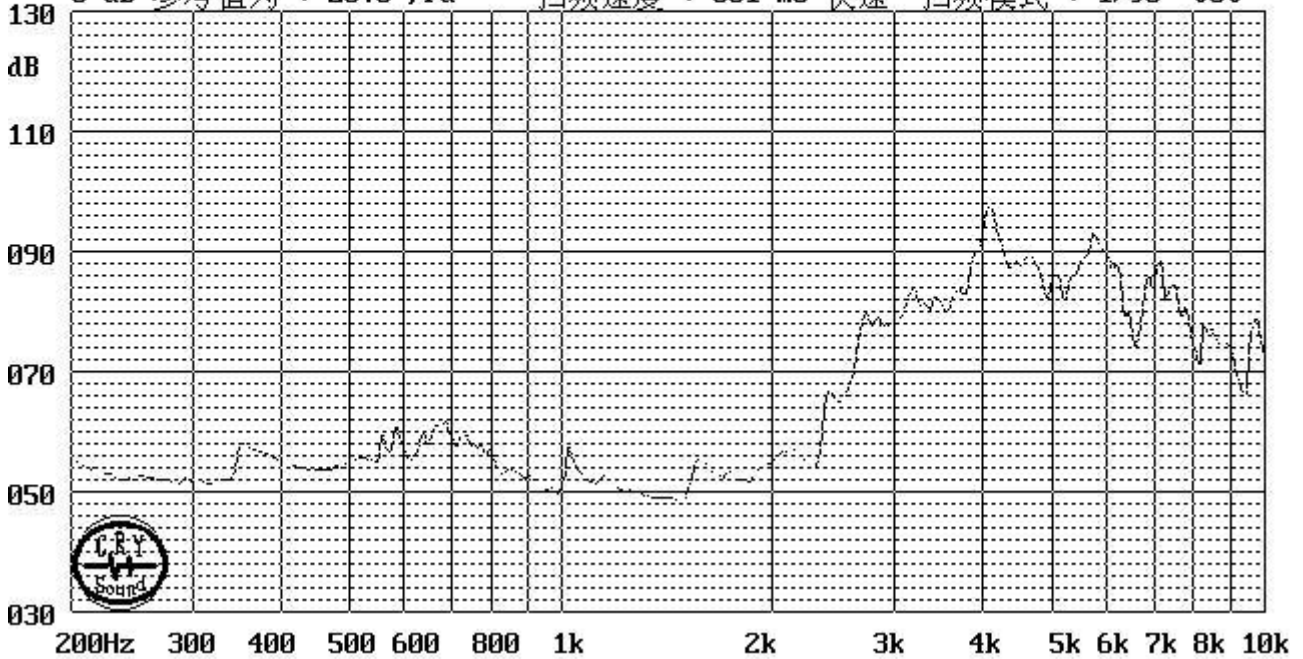
无框 滤波器1次

型号: Fc= 4000 Hz 092.97 dB

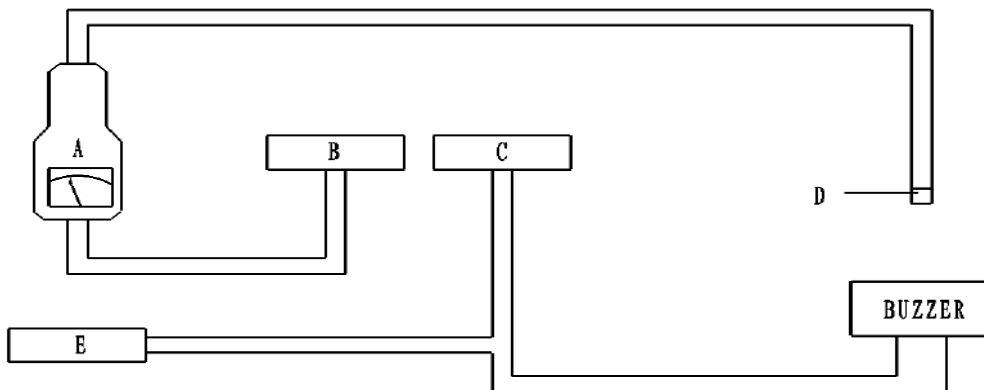
方波

电压:6000 mV Fo= 4078 Hz 097.59 dB

0 dB 参考值为 : 20.0 μ Pa 扫频速度 : 001 ms 快速 扫频模式 : 1/96 Oct



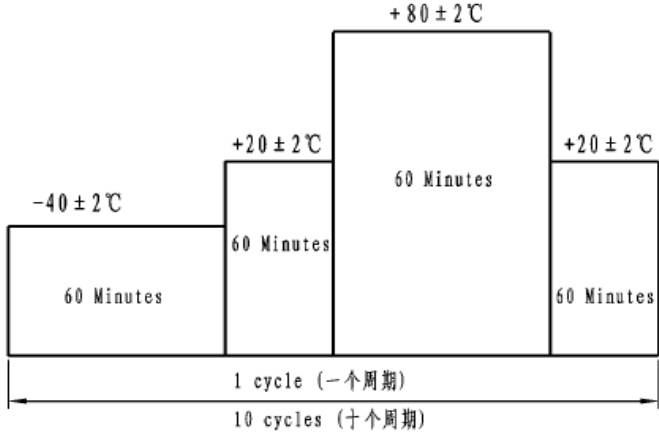
4. SOUND PRESSURE TESTING CIRCUIT DIAGRAM



- 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 (Ampere Meter) 信号发声器



5. RELIABILITY TEST

序号	ITEM	METHOD OF TEST	VARLANCE AFTER CONDITIONIN
1	Dry Heat Test (Storage)	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.	
2	Cold Test (Storage)	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.	
3	Humidity Test	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.	
4	Temperature Cycle Test	<p>Make the test for 5 cycles without applying power as fig then expose to the room temperature for 4 hours.</p> 	<p>Sound Pressure Level (Specification after test): Initial Value $\pm 10\text{dB}$.</p>
5	Vibration Resistant	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.	



6	Drop Test	Drop a product naturally form the height of 1000mm 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.	Sound Pressure Level (Specification after test): Initial Value±10dB.
7	Soldering Heat Resistance	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.	
8	Solder ability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 250℃ for 3 seconds.	95%min. lead terminals shall be wet with solder. (Except the edge of terminal)
9	Terminal Strength Pulling	The force 10 seconds of 9.8N is applied to each terminal in axial direction.	No visible damage and cutting off.

5. PACKING INFORMATION

1 (box) =100pcs (pearl cotton vest) ×10 (pearl cotton vest) =1000pcs

1 (carton) =1000pcs (box) ×12 (box) =12000pcs

