



## PRODUCT SPECIFICATION

Product Name: Piezo Buzzer

Part Number: MSPT13A40PA5V6

Document No: \_\_\_\_\_

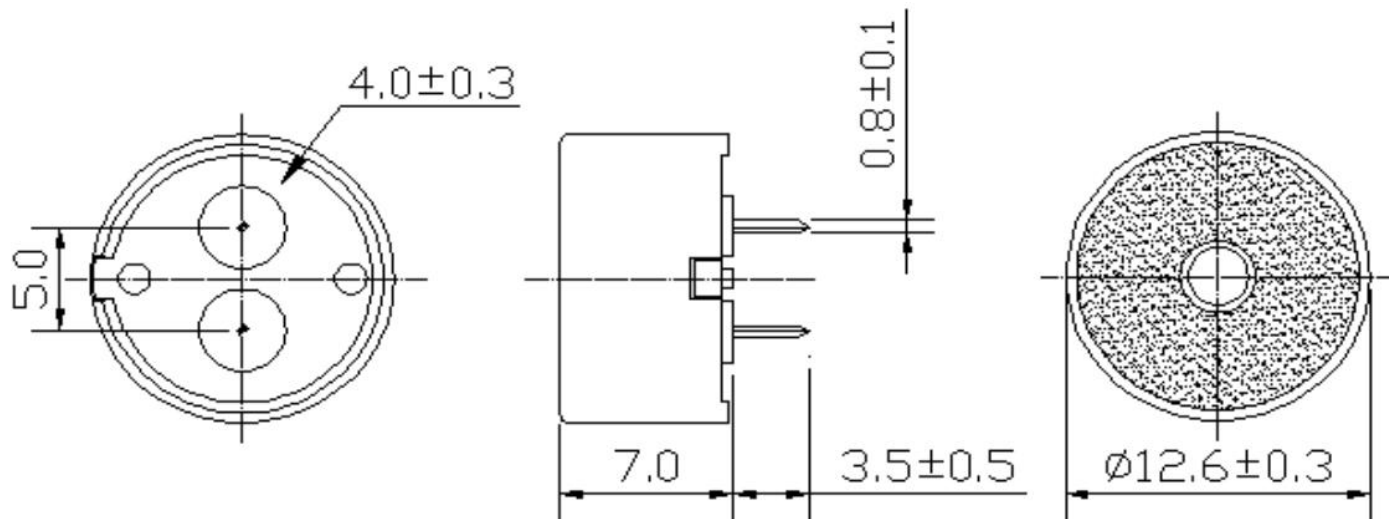
Date: 2021.05.27

DRAWING BY	CHECKED BY	APPROVED BY
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## 1.SPECIFICATION

Part Number		MSPT13A40PA5V6
Resonance Frequency	Hz	4000±500
Sound Pressure Level	dB	82min.At 4.0kHz Square wave/6.0Vp-p/10cm
Free Capacitance	pF	10,000±30% at 100Hz
Input Voltage	Vp-p	20 max. Sine wave
Current Consumption	mA	6Vp-p 2mA max
Operating Temperature	°C	-20 ~ +70
Storage Temperature	°C	-30 ~ +80
Dimension		As shown in Figure
Plate material		stainless steel
Case material		PBT
Pin material		Phosphor bronze

## 2.APPEARANCE DRAWING

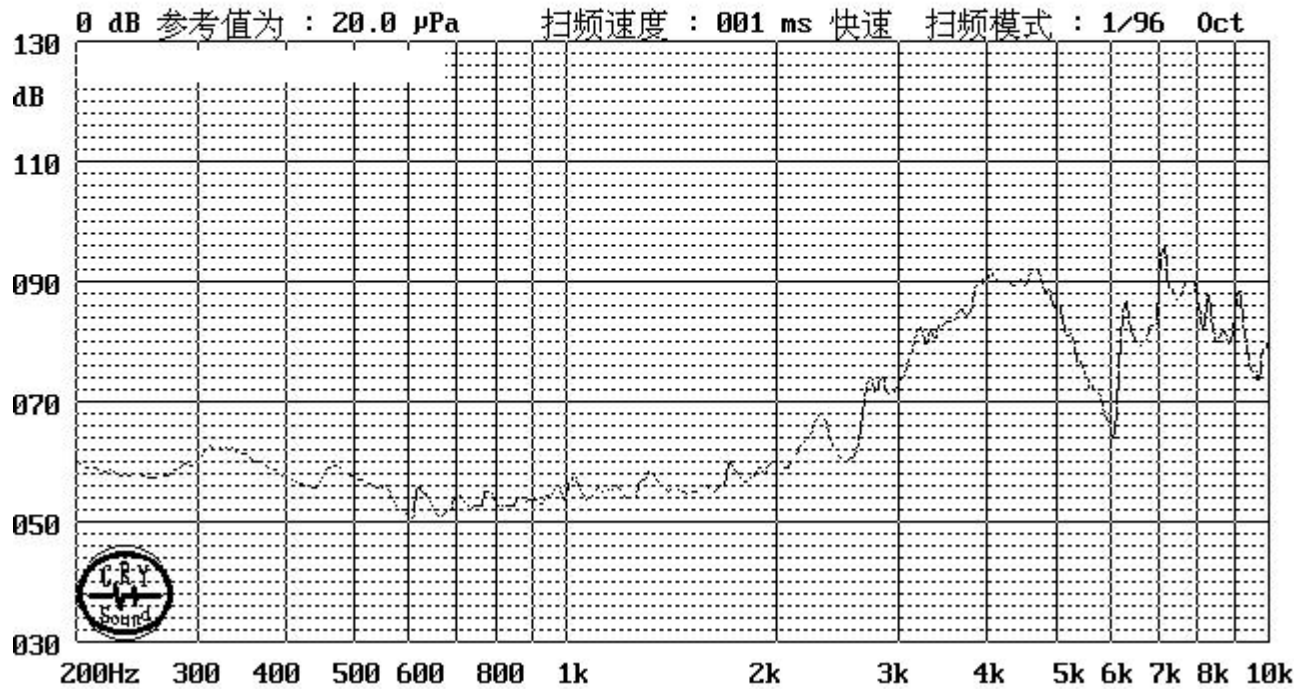


Unit:mm 未注公差:  $\pm 0.3$

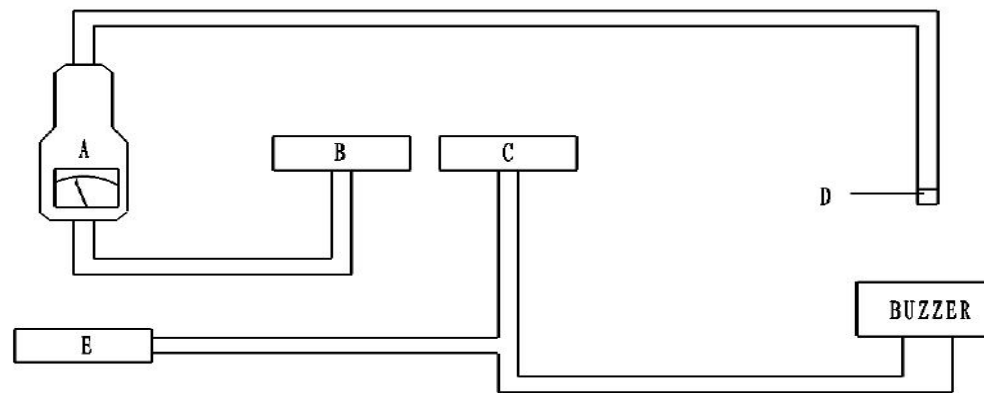
### 3.FREQUENCY RESPONSE

12/03/2014 12:58      CRY6125F 蜂鸣器测试仪 V91      无框 滤波器1次

型号:                                      Fc= 4000 Hz 089.95 dB                                      方波  
 电压:6000 mV                              Fo= 7148 Hz 096.22 dB

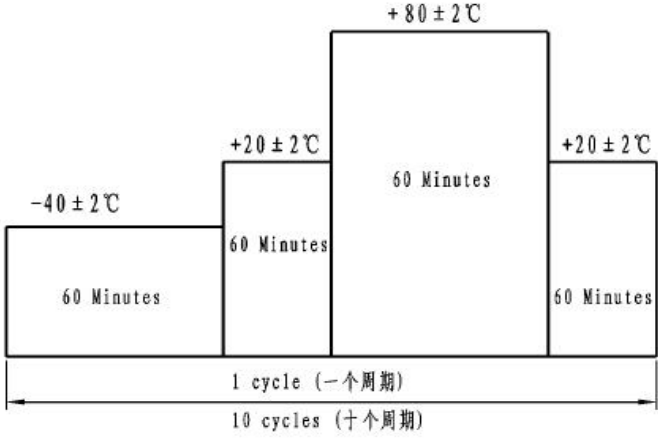


### 4. SOUND PRESSURE TESTING CIRCUIT DIAGRAM



- 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 (Amphere Meter) 信号发声器

## 5. RELIABILITY TEST

No	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.	Sound Pressure Level (Specification after test): Initial Value $\pm 10\text{dB}$ .
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	Make the test for 5 cycles without applying power as fig then expose to the room temperature for 4 hours. 	
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.	
7	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from buzzer's body in solder bath of $260^{\circ}\text{C}$ 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 $250^{\circ}\text{C}$ for 3 seconds.	
9	Terminal Strength Pulling	The force 10 seconds of 9.8N is applied to each terminal in axial direction.	

## 6. PACKING INFORMATION

1 盒 (box) = 100pcs/板 (pearl cotton vest) × 10 板 (pearl cotton vest) = 1000pcs  
1 箱 (carton) = 1000pcs/盒 (box) × 12 盒 (box) = 12000pcs

