



SPECIFICATION OF PRODUCT 承认书

CUSTOMER: _____

DESCRIPTION: Piezo Buzzer

FUSHENG P/N: FSR-1407TP-5V

CUSTOMER P/N: _____

DATE: _____

CUSTOMER	APPROVER	CHECKER
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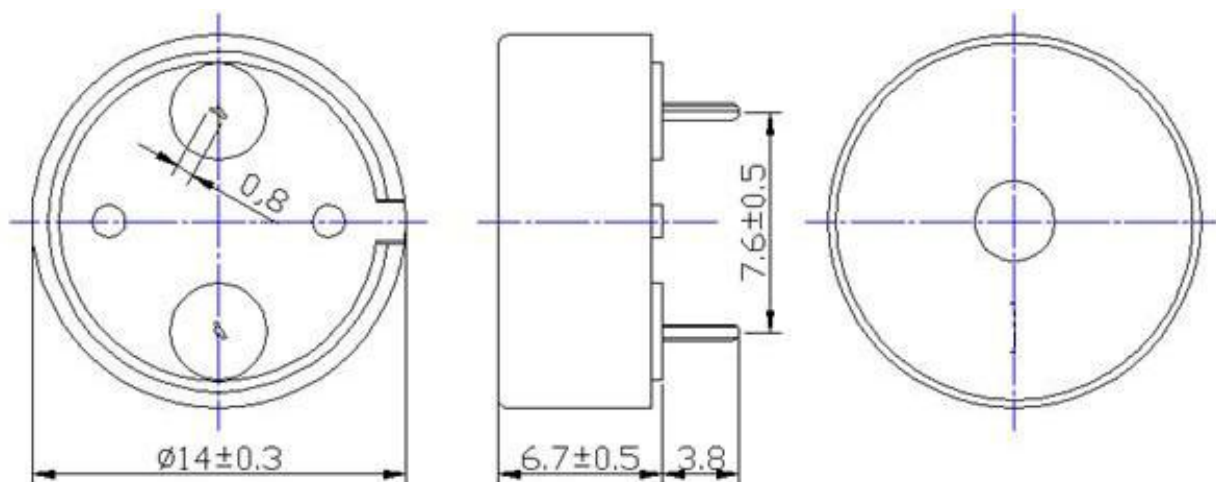
网址: www.tzfsdz.com



1. SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000 ± 500	square wave
2	Operating Voltage	Vp-p	1 ~ 30	
3	Rated Voltage	Vp-p	5	
4	Current Consumption	mA	MAX. 5	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Electrostatic Capacity	nF	12±30%	at 1000Hz
7	Operating Temperature	°C	-20 ~ +80	
8	Storage Temperature	°C	-30 ~ +80	
9	Dimension	mm	14 x H 7.0	See appearance drawing
10	Weight (MAX)	gram	2.5	
11	Housing Material		PBT	

2. APPEARANCE DRAWING 尺寸图



Tol: ± 0.3 Unit: mm

3. TESTING METHOD 测量方式

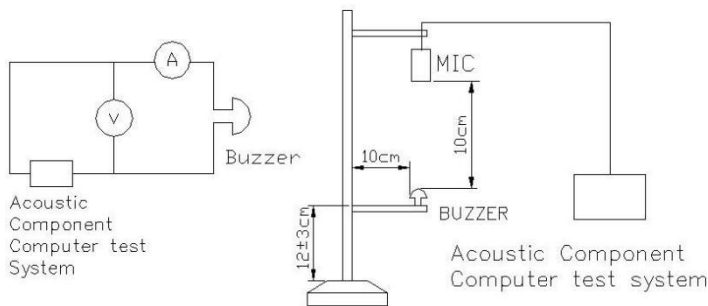
Standard Measurement conditions

Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

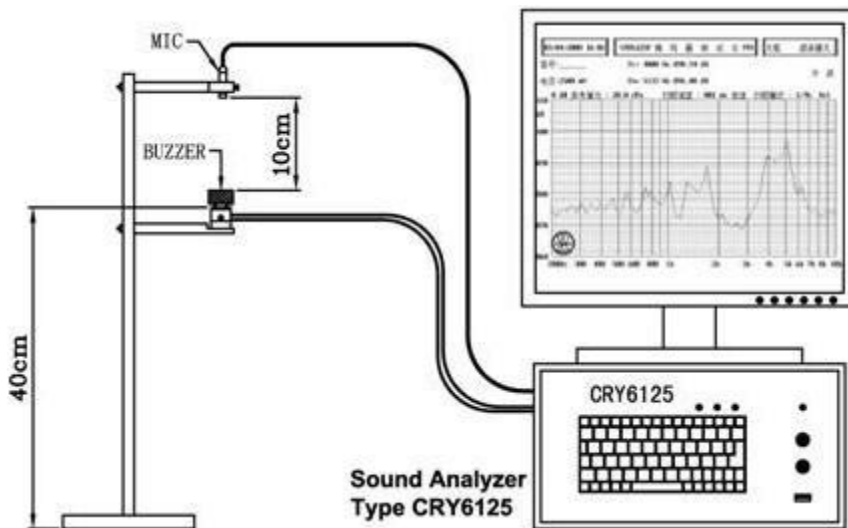
Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments

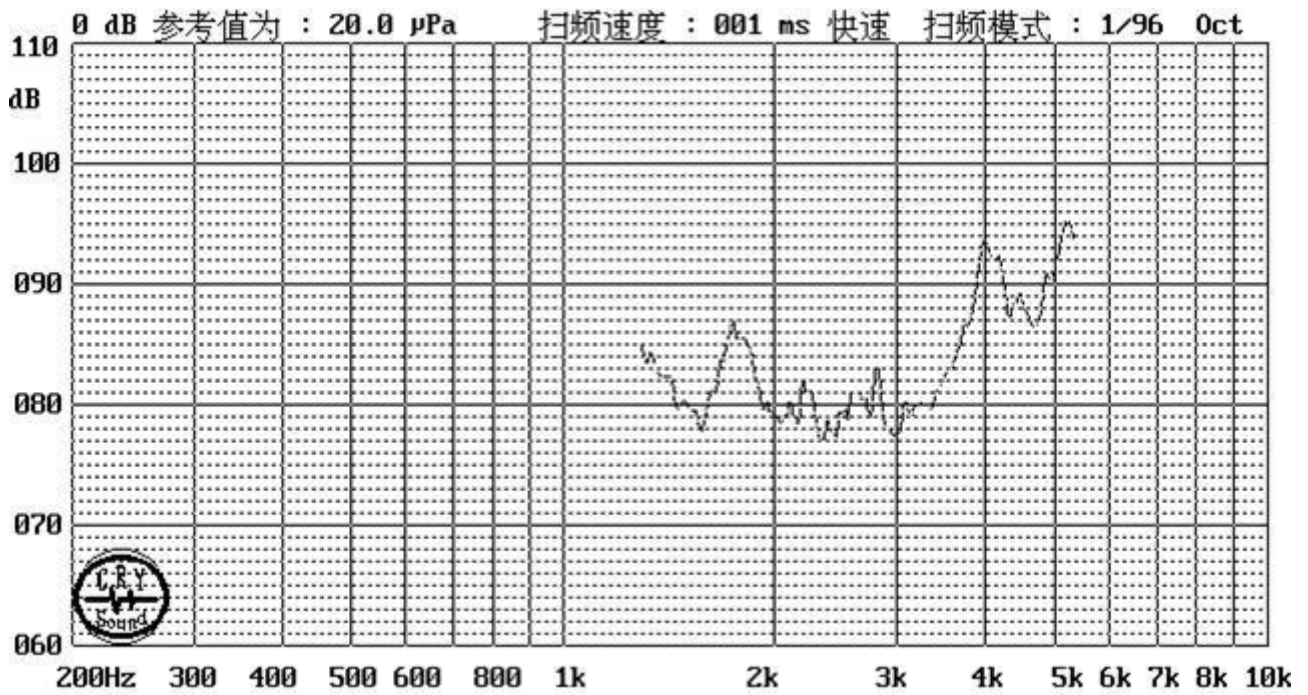
shown below.



In the measuring test, buzzer is placed as follows:



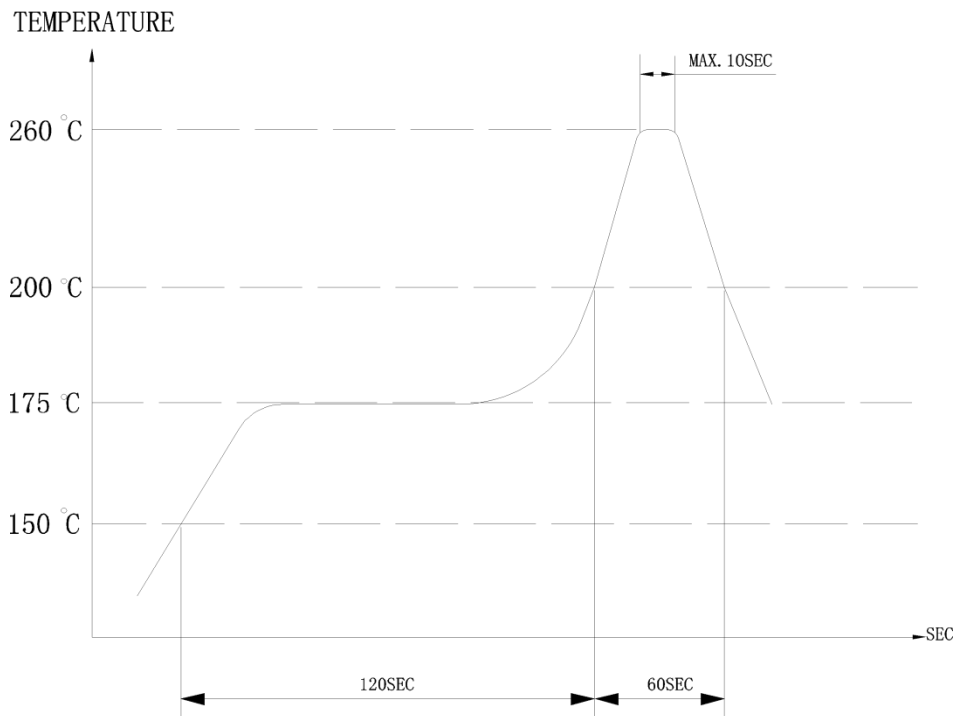
4. Typical Frequency Response Curve



5. Soldering Condition

- (1) Recommendable reflow soldering condition is as follows
 (Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.



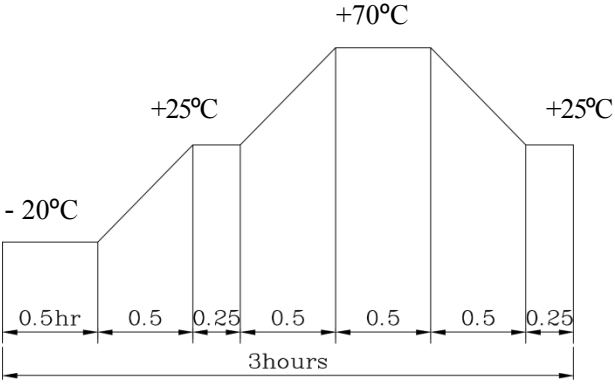
Heat resistant line

(Used when heat resistant reliability test is performed)

- (2) Manual soldering

Manual soldering temperature 350 °C within 5 sec.

6. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80 °C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30 °C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 °C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of:  <p>The diagram shows a temperature cycle profile over 3 hours. It starts at -20°C for 0.5 hours, then ramps up to +25°C (0.5 hr ramp, 0.25 hr dwell), then ramps up to +70°C (0.5 hr ramp, 0.5 hr dwell), then ramps down to +25°C (0.5 hr ramp, 0.25 hr dwell), and finally ramps down to -20°C (0.5 hr ramp, 0.25 hr dwell). The total duration is 3 hours.</p> Allowable variation of SPL after test: 10dB.
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions, 6 times, at the height of 75cm. Allowable variation of SPL after test: 10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. Allowable variation of SPL after test: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300 °C for 3 1 seconds. 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

TEST CONDITION.

Standard Test Condition	:	a) Temperature: +5~+35°C	b) Humidity: 45-85%	c) Pressure: 860-1060mbar
一般测试条件	:	a) 温度: +5 ~ +35°C	b) 湿度: 45-85%	c) 气压: 860-1060mbar
Judgment TestCondition	:	a) Temperature: +25 ± 2°C	b) Humidity: 60-70%	c) Pressure: 860-1060mbar
争议时测试条件	:	a) 温度: +25 ± 2°C	b) 湿度: 60-70%	c) 气压: 860-1060mbar