



SPECIFICATION OF PRODUCT

承认书

CUSTOMER: _____

DESCRIPTION: Piezo Buzzer

FUSHENG P/N: FSD-2316-12V

CUSTOMER P/N: _____

DATE: _____

CUSTOMER	APPROVER	CHECKER
	Yunqing Wu	Bing Yan

泰州福声电子科技有限公司

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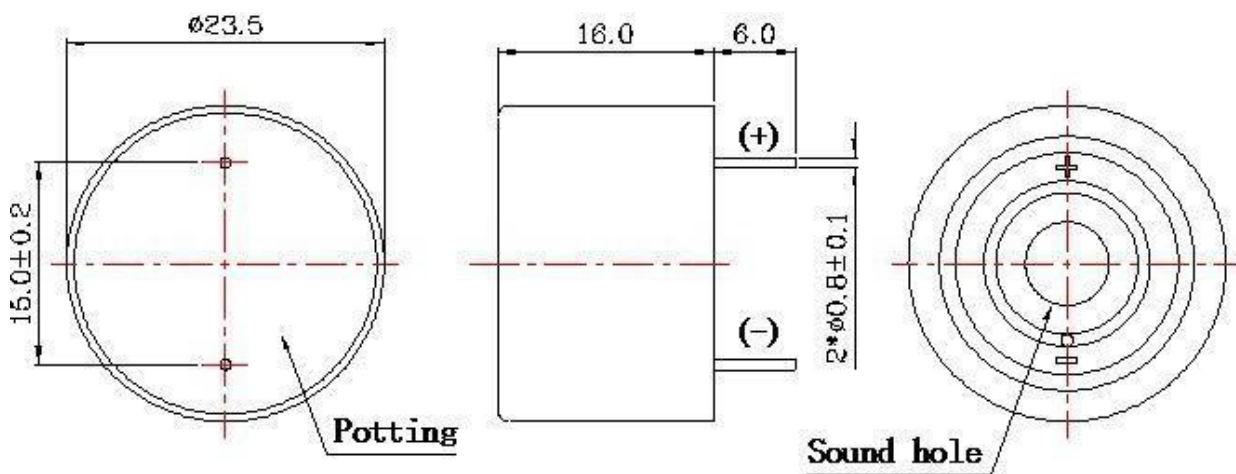
网址: www.tzfsdz.com



1. SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	3300±500	
2	Operating Voltage	VDC	3 ~ 15	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 10	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Operating Temperature	°C	-20 ~ +70	
7	Storage Temperature	°C	-30 ~ +85	
8	Dimension	mm	Φ23.0 x H12	See appearance drawing
9	Weight (MAX)	gram	4	
10	Housing Material		ABS(Black)	
11	Leading Pin		Wire Type	See appearance drawing
12	Environmental Protection Regulation		RoHS	

2. APPEARANCE DRAWING 尺寸图



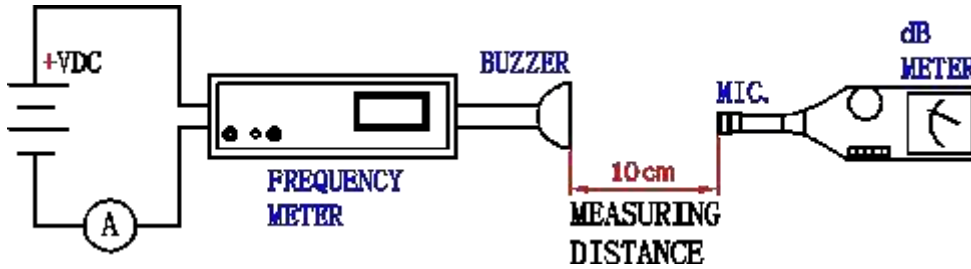
TESTING METHOD 测量方式

Standard Measurement conditions

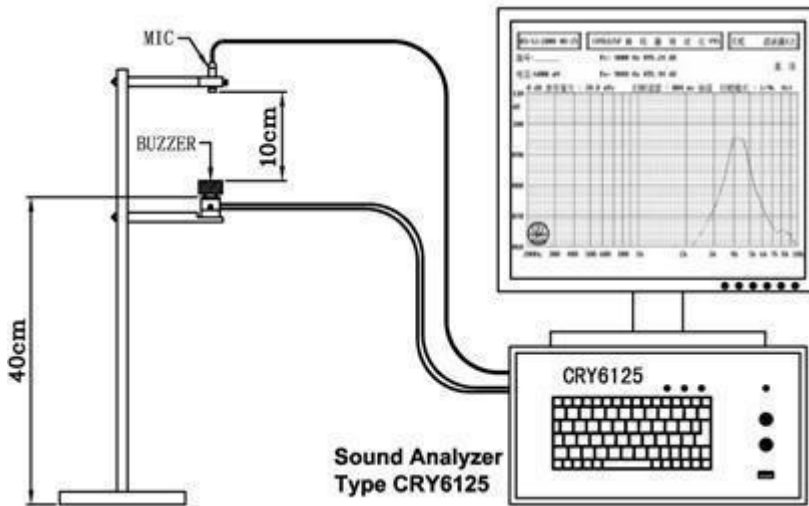
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

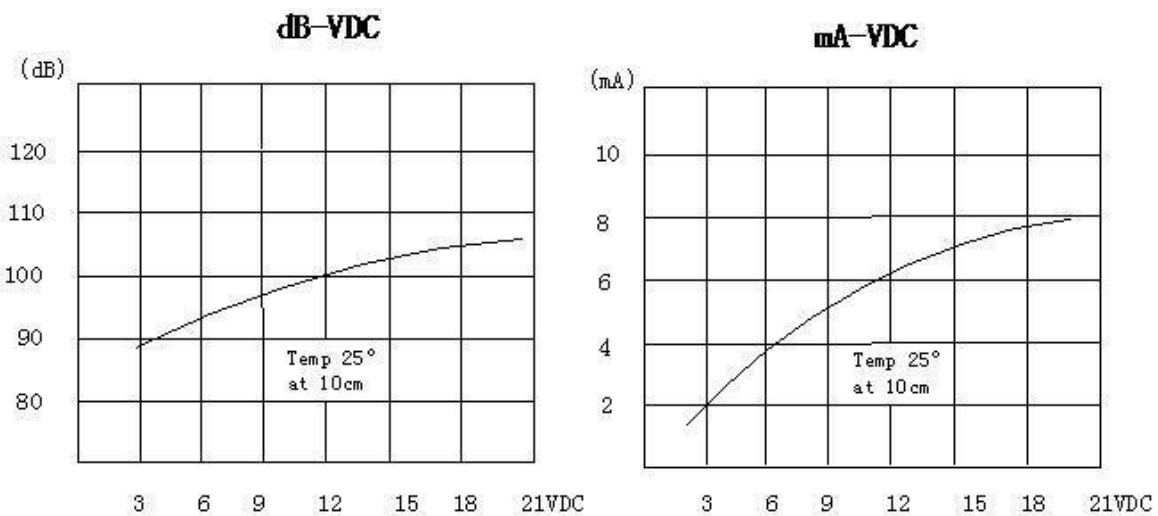
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



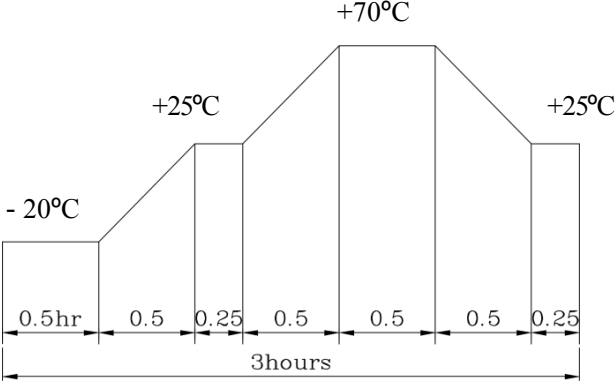
In the measuring test, buzzer is placed as follows:



4. VOLTAGE/ CURRENT/ SOUND PRESSURE CHARACTERISTICS



5. RELIABILITY TEST 可靠性测试

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	Afterbeingplacedina chamberwith 80 °Cfor96 hoursandthen beingplacedinnormalconditionfor2 hours. AllowablevariationofSPLaftertest: 10dB.
2	Low Temperature Test (Storage)	AfterbeingPlacedina chamberwith-30 °Cfor96 hoursandthen beingplacedinnormalconditionfor2 hours. AllowablevariationofSPLaftertest: 10dB.
3	Humidity Test	AfterbeingPlacedina chamberwith90-95%R.H.at 40 °C for96 hoursandthenbeingplacedinnormalconditionfor2 hours. AllowablevariationofSPLaftertest: 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 a 3-hour period. It starts at -20°C for 0.5 hours, then ramps up to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, ramps up to +70°C in 0.5 hours, holds at +70°C for 0.5 hours, ramps down to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, and finally ramps down to -20°C in 0.25 hours. The total duration is 3 hours.</p> AllowablevariationofSPLaftertest: 10dB.
5	Drop Test	Dropona hardwoodboardof 4cmthick,anydirections,6 times, at theheightof 75cm. AllowablevariationofSPLaftertest: 10dB.
6	Vibration Test	Afterbeingappliedvibrationofamplitudeof 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2hours. Allowablevariationof SPLaftertest: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersedinsolderbathof+300 °Cfor3 1seconds. 90% min. leadterminalsshallbewetwithsolder (Excepttheedgeofterminals).
8	Terminal Strength Pulling Test	Theforceof 9.8N(1.0kg) isappliedtoeachterminalinaxialdirectionfor 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

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