



SPECIFICATION OF PRODUCT

承认书

CUSTOMER:	
DESCRIPTION: _	Piezo Buzzer
FUSHENG P/N: _	FSD-3020-12V
CUSTOMER P/N:	
DATE:	2018-8-28

CUSTOMER	APPROVER	CHECKER
1/3	Yunqing Wu	Bing Yan

泰州福声电子科技有限公司

FUSHENG ELECTRONICS-----Acoustic Components Professional Manufacturer

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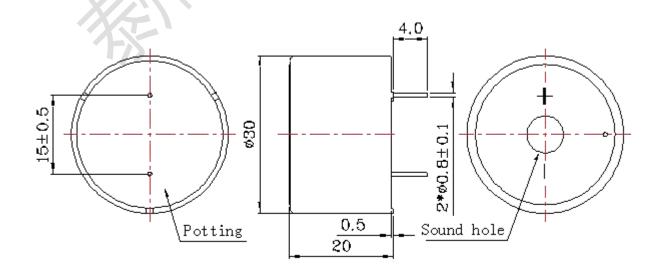
邮箱: sales@electronic-tech.cn

网址: www.tzfsdz.com

1.SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	3500	
2	Operating Voltage	VDC	3~20	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 15	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 100	at 10cm at Rated Voltage
6	Operating Temperature	$^{\circ}$	-20 ~ +70	
7	Storage Temperature	$^{\circ}$	-30 ~ +80	
8	Dimension	mm	Ф30.0 х Н20	See appearance drawing
9	Weight (MAX)	gram	8	
10	Housing Material		PPO(Black)	
11	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
12	Environmental Protection Regulation		RoHS	

2. APPEARANCE DRAWING 尺寸图



Tol: \pm 0.5 Unit: mm

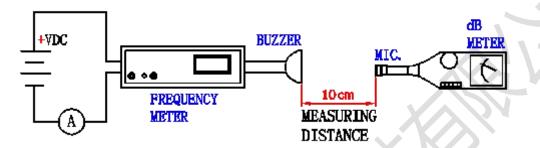
3.TESTING METHOD 测量方式

Standard Measurement conditions

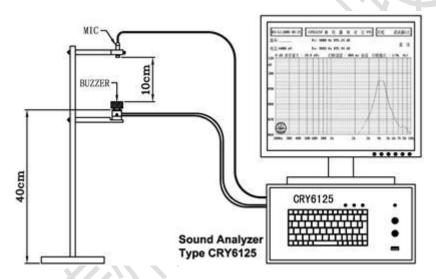
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

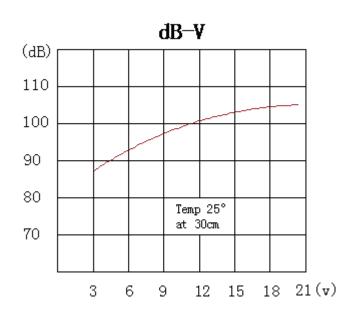
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below

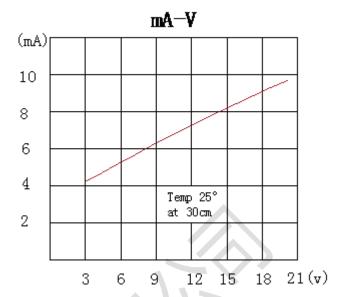


In the measuring test, buzzer is placed as follows:



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)	After being placed in a chamber with 80 2°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 2°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 2°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: +70°C +25°C +25°C +25°C -20°C 3hours 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.		

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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 5°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℃
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

 一般测试条件
 : a) 温度: +5 ~ +35℃
 b) 湿度: 45-85%
 c) 气压: 860-1060mbar

 Judgment Test Condition
 : a) Temperature: +25±2℃
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 争议时测试条件
 : a) 温度: +25±2℃
 b) 湿度: 60-70%
 c) 气压: 860-1060mbar