



ROHS

SPECIFICATION OF PRODUCT

承认书

CUSTOMER: _____

DESCRIPTION: Piezo Buzzer

FUSHENG P/N: FSD-4020

CUSTOMER P/N: _____

DATE: 2018-8-28

CUSTOMER	APPROVER	CHECKER
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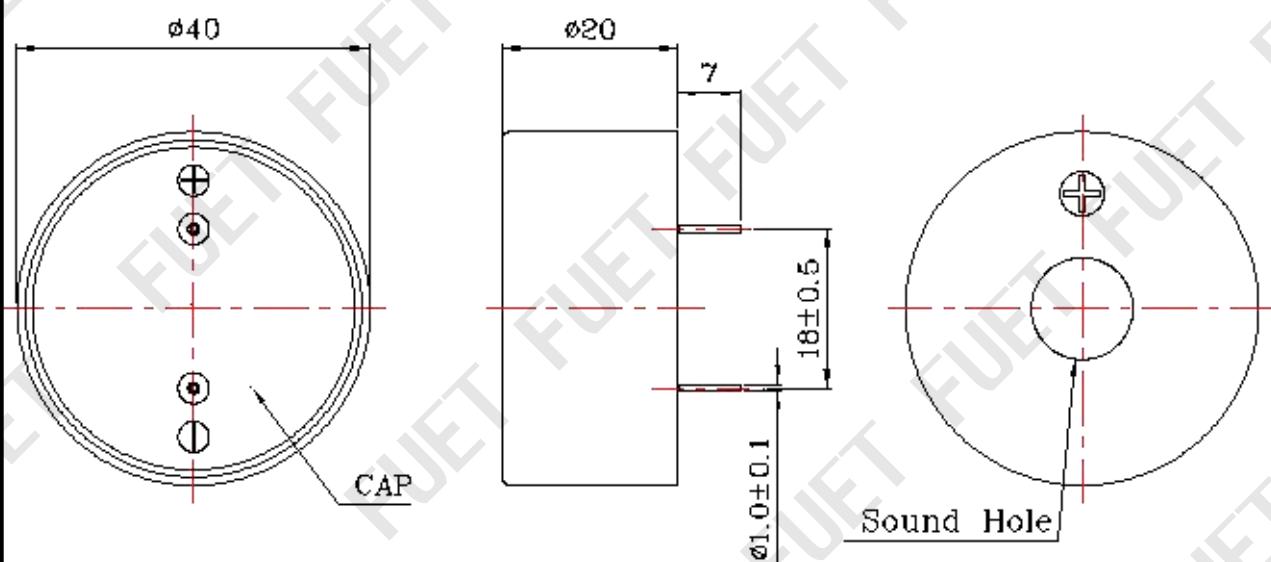
邮箱: sales@electronic-tech.cn

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1. SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2800 ± 0.5	
2	Operating Voltage	VDC	3 ~ 20	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 50	at Rated Voltage
5	Sound Pressure Level	dB	MIN.100	at 10cm at Rated Voltage
6	Operating Temperature	°C	-20 ~ +60	
7	Storage Temperature	°C	-30 ~ +70	
8	Dimension	mm	$\Phi 40.0 \times H20$	See appearance drawing
9	Weight (MAX)	gram	13	
10	Housing Material		ABS(Black)	
11	Leading Pin		Wire Type	See appearance drawing
12	Environmental Protection Regulation		RoHS	

2. APPEARANCE DRAWING 尺寸图



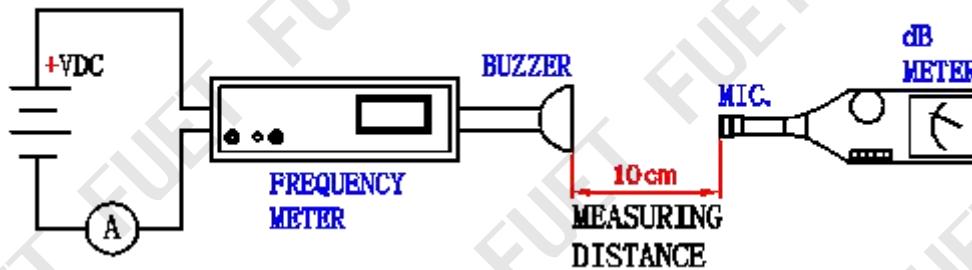
3. TESTING METHOD 测量方式

Standard Measurement conditions

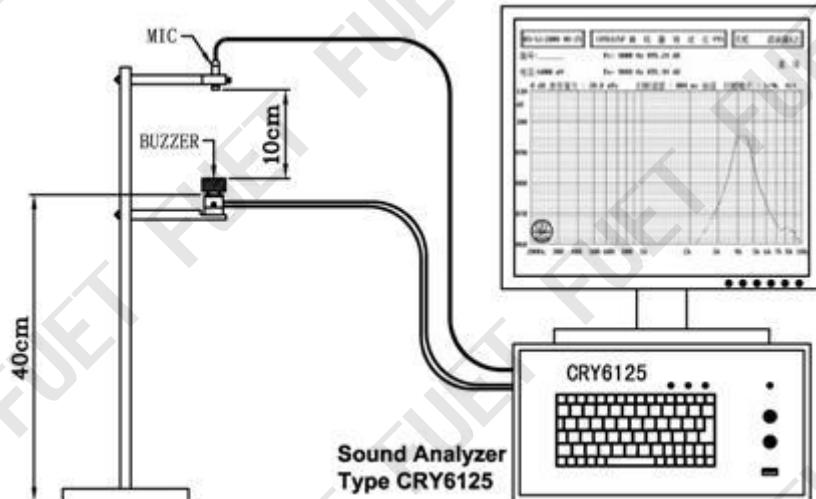
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

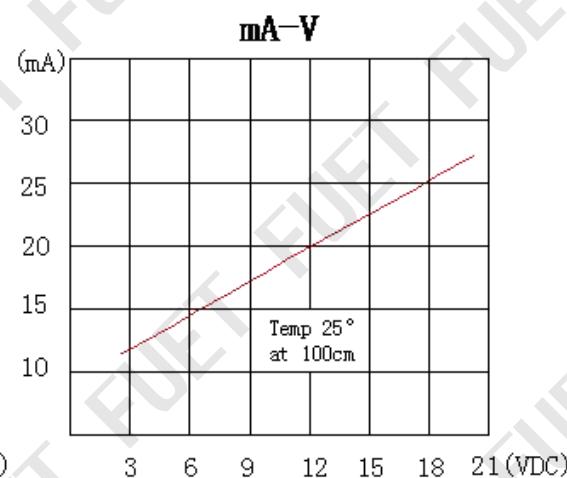
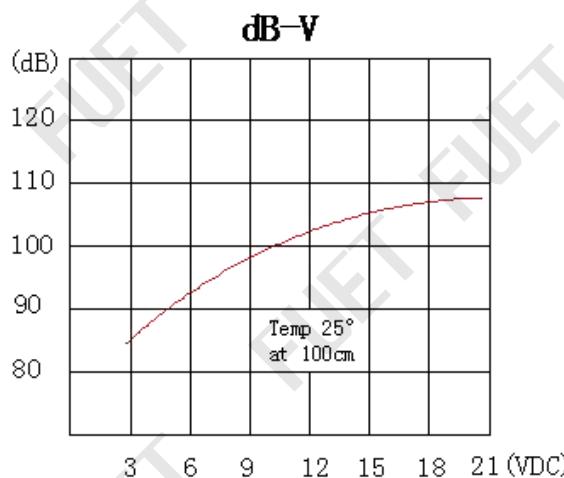
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



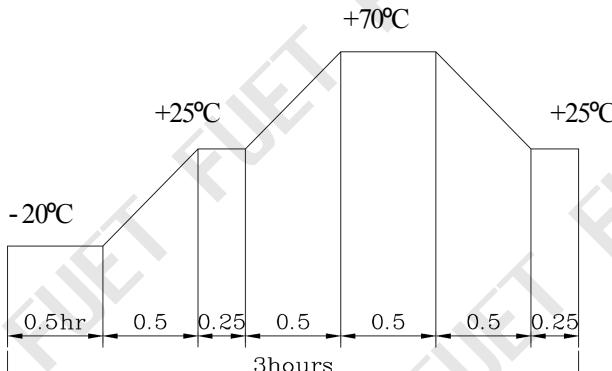
In the measuring test, buzzer is placed as follows:



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