



深圳市兴华鑫电子科技有限公司
Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶(Customer): _____
客戶料號(Customer P/N): _____
興華鑫型號(Supplier P/N): 3610-DC12V-L100MM
產品名稱(Description): 蜂鸣器 (Buzzer)
產品規格(Specification): 36*31MM 有源压电式

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期: 2022 年 04 月 19 日 版次: A		

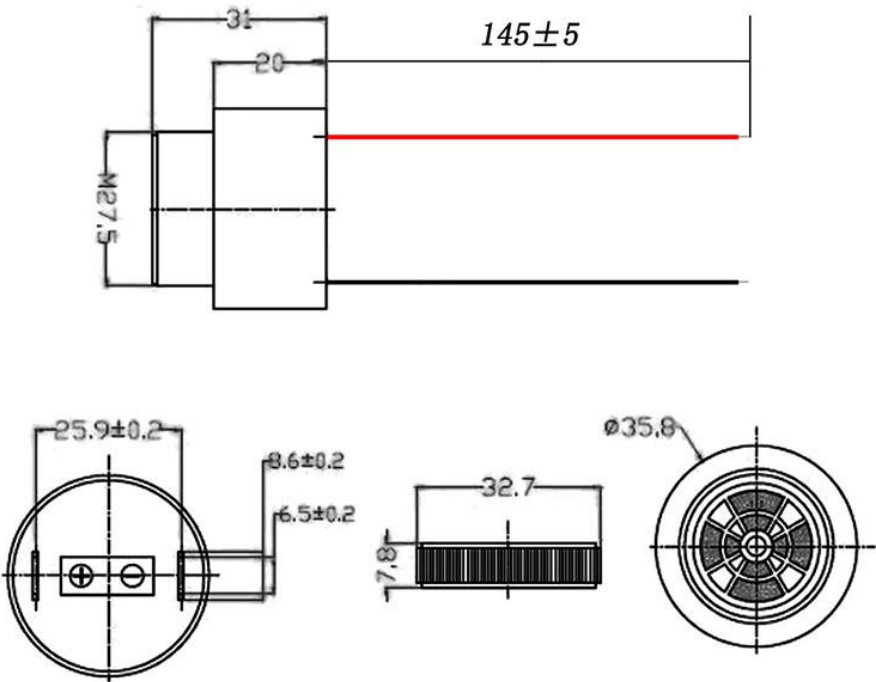
声音让生活更精彩!

地址: 深圳市宝安区新安街道新乐社区新乐路88号厂房四层
TEL: 0755-27892904
E-mail: jacky.tang@jsxhxdz.com
Http: www.jsxhxdz.com

1.SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	3000±500	
2	Operating Voltage	VDC	3 ~ 26	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 10	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 100	at 10cm at Rated Voltage
6	Operating Temperature	℃	-20 ~ +70	
7	Storage Temperature	℃	-30 ~ +85	
8	Dimension	mm	Φ43x H33	See appearance drawing
9	Weight (MAX)	gram	40	
10	Housing Material		ABS(Black)	
11	Leading Pin		Sn	See appearance drawing
12	Environmental Protection Regulation		RoHS	

2.APPEARANCE DRAWING 尺寸图



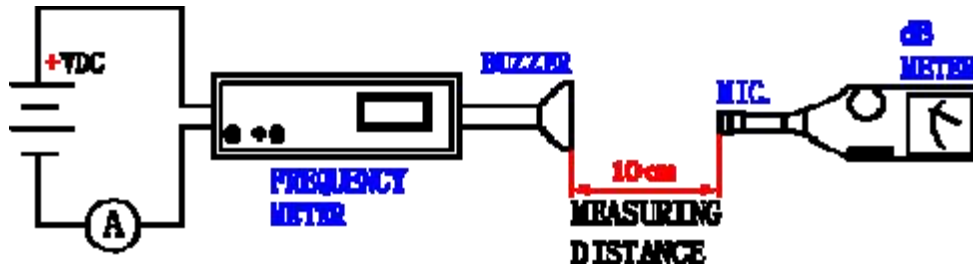
3. TESTING METHOD 測量方式

Standard Measurement conditions

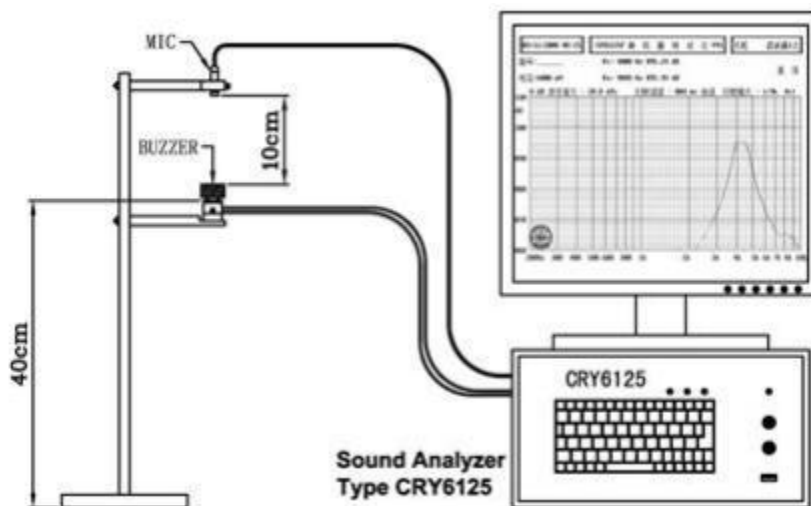
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

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

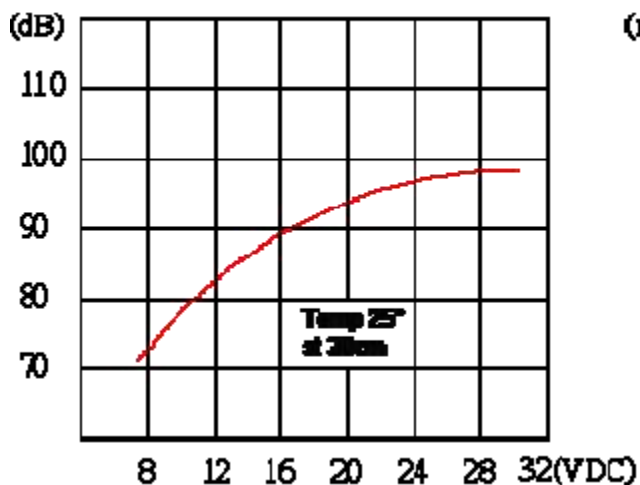


In the measuring test, buzzer is placed as follows:

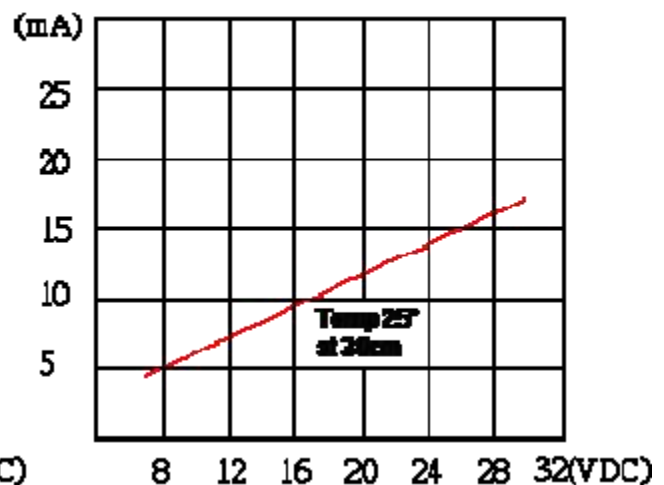


4. VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS

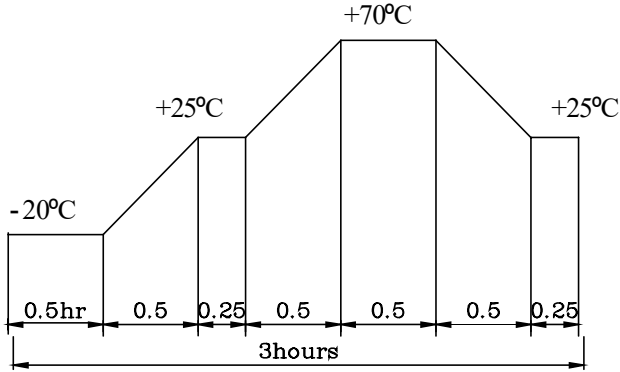
dB-V



mA-V



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 °C for 96hours and then being placed in normal condition for 2hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30 °C for 96hours and then being placed in normal condition for 2hours. 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 2hours. 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 hardwood 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 Test Condition	:	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