



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):

XHxDZ-3840 超声波喇叭

產品名稱(Description):

喇叭 (Speaker)

產品規格(Specification):

3840 超声波喇叭

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		

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A. SCOPE

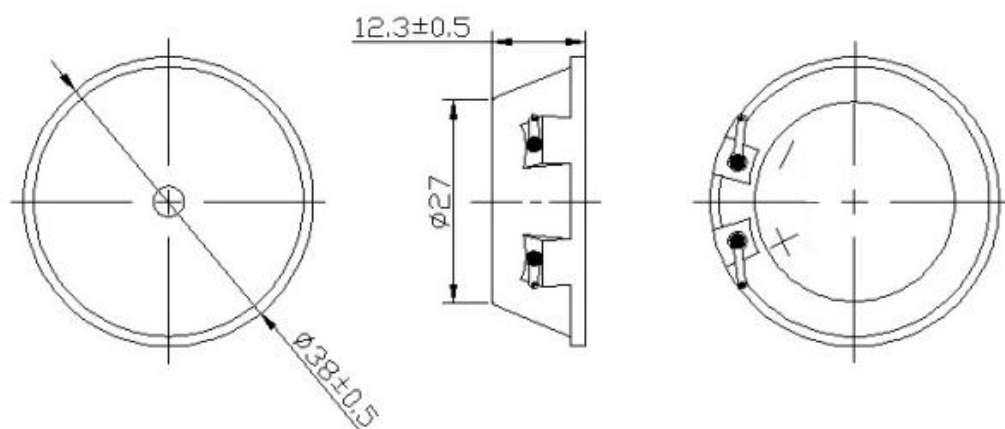
This specification applies magnetic buzzer, XHxDZ-3840

B. SPECIFICATION

No.	Item	Unit	Specification
1	Resonant Frequency*	KHz	25±5
2	Rated Voltage QVP)	Vp-p	5.0
3	Operating Voltage QT-P)	Vp-p	1-30
4	Max. Current Consumption at Rated Voltage (mA)	mA	5.0
5	Capacitance at 1000Hz	Pf	105000 ±30%
6	Alin. Sound Output at 10cm at Rated Voltage	DB	MIN 85
7	Operating Temperature	℃	-20--70
8	Storage Temperature	℃	-30--80
9	Housing Material		ABS(Black)
10	Environmental Protection Regulation		RoHS

Buzzer			Soldering Parameter		
Soldering process			Temp.(°Q	Time(Sec.)	Times
Inclusive Lead		Reflow soldering	230±10	above 170℃ time 40-70	2
		Wave soldering	245±5	3T	1~2
		Manual soldering	330±10	1-2	1-2
Lead Free		Reflow soldering	245±15	above 180℃ time 40-70	3
		Wave soldering	260±5	4-8	2-3
	★	Manual soldering	350±10	1~3	2-3

C. APPEARANCE DRAWING



Tol : ± 0.3

Unit: mm

D.TESTING METHOD

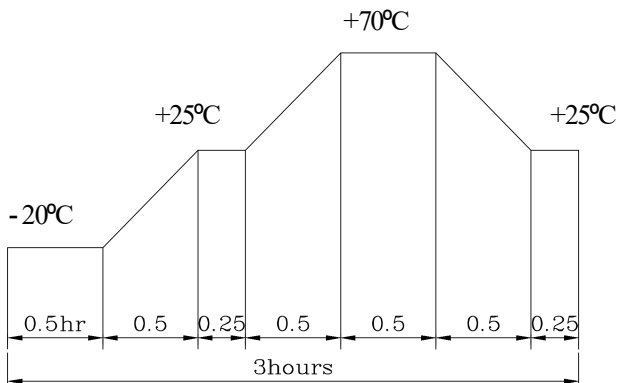
Standard Measurement conditions

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

Frequency response characteristic of SPL



E. 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:  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 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

F. PACKING STANDARD

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number, quantity and outgoing inspection number. There shall be no mechanical damage on products during transportation and/or in storage.

