承認書

SPECIFICATION APPROVAL SHEET

Product Description 產品名稱	:	壓電自激式蜂鳴器
Promover Product No. 我 方 型 號	:	HPE-2910
Company Name 公司名稱	:	宏原國際有限公司
Customer Product No. 客戶型號		
Sample No.	:	PMC-23879

Cus	tomer Approve 客戶簽	ed Signature 認
DATE :	DATE:	DATE :



澄源松實業有限公司

ISO9001:2000 Certificate



Approved By	Check By	Assumed By		
確認	客核	擔當		
DATE:	事 第5.7 秋夢	DATE:		

1.Scope

This specification is applied to Piezo Buzzer (Self-Drive Type)

The product describe below are used for buzzer in various alarm systems.

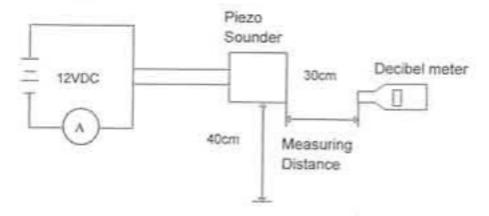
2.Basic Condition

- 2.1 Rated Voltage: 12VDC
- 2.2 Operating Voltage:3~28VDC
- 2.3 Operating Temperature Range:-20°C~+70°C
- 2.4 Storage Temperature Range: -30°C~+80°C

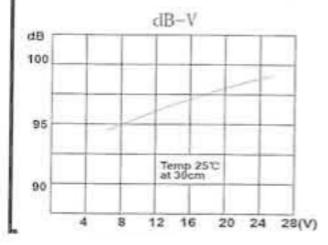
3.Electrical Characteristics

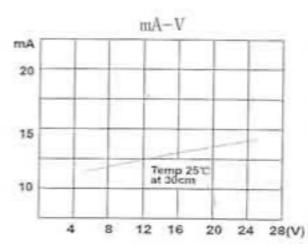
- 3.1 Sound Press Level: ≥95dB at 30cm / 12VDC
- 3.2 Consumption Current: ≤15mA at 12VDC
- 3.3 Resonate Frequency:3500Hz±500Hz
- 3.4 Tone Nature: Continuous Sound
- 3.5 Material: ABS

4.Measuring Method



5.Sound Press Level & Consumption Current Curve





TEST REPORT

Product No:HPE-2910-12V

Date:2010-5-7

#	dB	mA	Hz	#	dB	mA	Hz
1	108	12.8	3858				
2	107	10.9	3752				
_		以下空台					
-							
+				+			
+							
-10							
+							
+							
+				-			
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Remark:

(1)Sound Press Level: ≥95dB at 30cm / 12VDC (2)Consumption Current: ≤15mA at 12VDC

(3)Resonate Frequency : 3500Hz±500

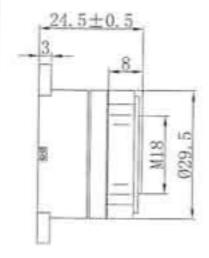
NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with 80±2°C for 96 hours and ther being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.		
2	Low Temperature Test (Storage)	After being Placed in a chamber 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: +80°C +25°C -30°C +25°C -30°C 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 100cm, Allowable variation of SPL after test ±10dB.		
6	Vibration Test	After being applied vibration of amplitude of 1.5mmwith 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	Solder ability 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 / Wire 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.		

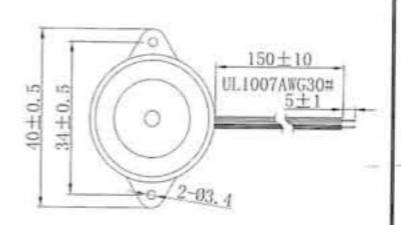
7.Reliability Test

Continuous life test: 250 Hours continuous operating at +70 °C with maximum rated voltage applied

Intermittent life test:
Adulty cycle of 1 minute on, 5 minutes off,a minimum of 10000 times at temperature +25 °C±2

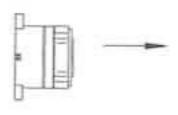
8.Dimension



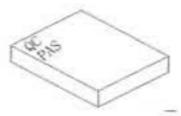


Tolerance ±0.5mm

9.Packing List







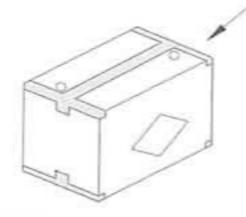
HPE-2910 2914

Plastic bag: 100PCS

Inner box: 100PCS

Carton: 1000PCS

Carton:61*34*35cm



P/N: HPE-2910~2914

QTY: 1000 PCS N.W: 15 KGS G.W: 16 KGS CTN: 61*34*35cm