1.Scope

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

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

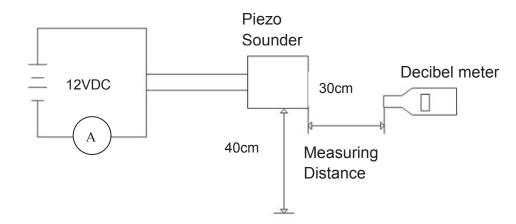
2.Basic Condition

- 2.1 Rated Voltage:12VDC
- 2.2 Operating Voltage:8~16VDC
- 2.3 Operating Temperature Range:-20 °C~+70 °C
- 2.4 Storage Temperature Range:-30°C~+80 °C

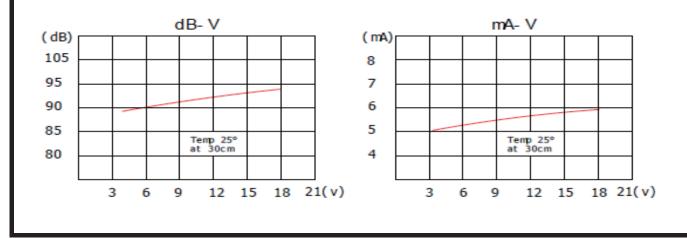
3.Electrical Characteristics

- 3.1 Sound Press Level:≧90dB at 30cm / 12VDC
- 3.2 Consumption Current:≦8mA at 12VDC
- 3.3 Resonate Frequency:3800Hz±300Hz
- 3.4 Tone Nature:Continuous Sound
- 3.5 Material:ABS

4.Measuring Method



5.Sound Press Level & Consumption Current Curve



TEST REPORT

Product No:20EB020

Date: 2010-9-24

#	dB	mA	Hz	#	dB	mA	Hz
1	98	5.4	3926				
2	99	4.2	3941				
3	99	5.5	3890				
		以下空白					

(2)Consumption Current : ≤ 8 mA at 12VDC

(3)Resonate Frequency : 3800Hz±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 then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±100B. 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: ±100B. 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: ±100B. 4 Temperature Cycle Test The part shall be subjected to 5 cycles. One cycle shall be consist of: 4llowable variation of SPL after test: ±10dB. 5 Drop Test Drop 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, 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	6.Environment Test Method								
1 Fright Temperature Test (Storage) 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 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. 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: 4 Temperature Cycle Test 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 terminal). 8 Terminal / Wire Strength The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cuttion off<	NO.	ITEM	TEST CONDITION AND REQUIREMENT						
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	8	Strength							

7.Reliability Test

<u>Continuous life test:</u> 250 Hours continuous operating at +70 °C with maximum rated voltage applied . <u>Intermittent life test:</u> Aduty cycle of 1 minute on, 5 minutes off,a minimum of 10000 times at temperature +25 °C±2

