ROHS

VersionNo:04011

APPROVAL SHEET FOR PIEZO BUZZER

納入仕樣書

CUSTOMER:	LET
SUNWAY P/N:	PCW23098P15.0-12V-3300-F
CUSTOMER P/N:	
CUSTOMER P/N:	

CUSTOMER	APPROVER	CHECKER

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Issue	Note	Date	Name	PCW23098P15.0-12V-3300-F		050303.01
				Apr.	J.G.Rui	
				Chk.	J.Yang	
				Des.	L.Liu	
				Date	2009-10-10	

SPECIFICATIONS FOR PIEZO BUZZER

1.Scope

This specification is applied to PIEZO BUZZER.

The products described below are used for sounder in various alarm systems.

2.Basic Condition

2.1 Operating Voltage: 3.0—20.0VDC.

2.2 Operating Temperature Range: -20—+70

2.3 Storage Temperature Range:-40—+80

3. Electrical Characteristics

3.1 Specification

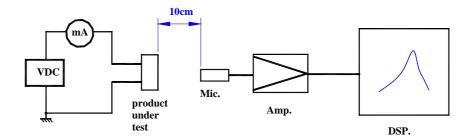
3.1.1 Output SPL: 85.0dB at 30cm, 12.0VDC

3.1.2 Consumption Current: 10.0mA: at 12.0 VDC

3.1.3 Oscillation Frequency: 3300 ± 500 Hz.

3.2 Measuring Method

3.2.1 Measuring Circuit for SPL, Consumption Current, Resonant Frequency



Input Signal: 12.0VDC

S.G: Signal Generator mA: Milliammeter Amp: Amplifier

Mic: Measuring Condenser Microphone DSP: Display Screen

3.2.2 Capacitance Measuring: LCR Meter

3.2.3 Measuring Condition

Temperature: 15—35 R.H. 45—75%

3.2.4 Judgement Condition

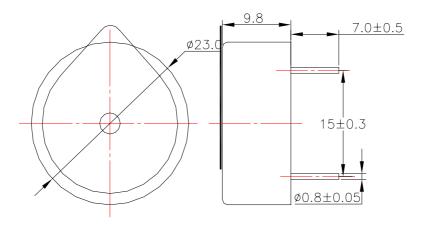
Temperature : 25 ± 2 R.H. 45—75%

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4. Mechanical and Environment Characteristics.

		ITEM		TE	ST CONDITION AND R	EQUIREMENT		
4.1		Cemperature Storage)	bein	After being placed in a chamber with 85 2°C for 4 hours and then being placed in natural condition for 2 hours. Allowable variation of SPL after test: 10dB.				
4.2		emperature storage)	bein	r being F g placed wable va				
4.3	Humid	lity Test	hour	s and the	Placed in a chamber with 9 en being placed in natural ariation of SPL after test:			
4.4	Tempe Test	shall temp 30 m temp shall	After being placed in a chamber at -40 2°C for 30 minutes, products shall be placed at room temperature(+20°C). After 15 minutes at this temperature, products shall be placed in a chamber at +85 2°C. After 30 minutes at this temperature, products shall be return to room temperature (+20°C) for 15 minutes. After 5 above cycles, products shall be measured after being placed in natural condition for 4 hours. Allowable variation of SPL after test: 10dB.					
4.5	Drop 7	Γest	at th	Drop on a hard wood board of 5cm thick, any directions ,6 times, at the height of 80cm . Allowable variation of SPL after test: 10dB.				
4.6	Vibrat	ion Test	band 2 ho	l of vibra		ude of 1.5mmwith 10 to 55 Hz 3 perpendicular directions for 10dB.		
4.7	Solder Test	Lead imm 90%	I termina ersed in min. lea	als are immersed in rosin for solder bath of +260 5°C for the solder bath of terminals shall be wet we	or 5 seconds and then or 60 1 seconds.			
4.8	Solder Test	Lead imm 90%	(Except the edge of terminals). Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +230 5°C for 3 0.5 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).					
4.9	Termin Pulling	The 10 se	The force of 9.8N is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.					
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5.Dimensions



6.Materials List

No.	Part Name	Type of Material	Supplier
1	Case	MPPO	GE PLASTICS
2	Diaphragm	20.0mm	
3	Pin	Cu	
4			
5			
6			

7.Package

package Item	Small box	Internal box	External case
Size	22.5X15.0X3.0	24.0X16.0X29.0	47.5X39.0X30.0
Material	sponge plastics	PVC bag	paper board
Quantity	40 pcs/box	400 pcs/bag	2000 pcs/case
G. Weight	200g	1.93Kg	10.7Kg

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				Date	2009-10-10			

Specification for Piezo Buzzer Plastics sealing strip Packing tape sponge plastics box **Paper** \mathbf{C} Small box **Internal box External** case About the A.B.C See below **B**: **A**: TYPE: PCW23098P15.0-12V-3300-F LOT NO.: **QUANTITY**: 400 Pcs DATE: C: FR__TYPE: PCW23098P15.0-12V-3300-F Q'TY: 2000 PCS N. W: 9.0 KG G. W: 10.7 KG SIZE: 47.5X39.0X30.0CM NO. OF Date 2009-10-10 L.Liu Des. Chk. J.Yang J.G.Rui Apr. PCW23098P15.0-12V-3300-F Issue Note Date Name 050303.01 Page: 4/6

8. Remarks

- 8.1 Please pay attention to connect the positive end of your signal to the " + " terminal of our product.
- 8.2 Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by an abnormality or failure related to our product.
- 8.3 The product may be damaged if mechanical stress over this specification is applied.
- 8.4 Please pay attention to protect operating circuit from surge voltage provided by something of force such as falling, shock and temperature changing.
- 8.5 In case of using solder iron for soldering, the temperature at the top of soldering irons should be kept less than +350 . Moreover the soldering time should be also kept within 3 seconds.

	•		•		product as a single unit. P	lease insure the product	is thoro	ughly	
evaluated in your application circuit. 8.7 Please return a copy of this specification after your signature of confirmation. In case of no return within									
three months from submission date, this specification should be treated as confirmed.									
			,	~F					
9. An	inex								
9.1 Me	asuring Da	ita Sheet.							
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				Date	2009-10-10				
				Des.	L.Liu				
				Chk.	J.Yang				
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Specification for Piezo Buzzer 9.1 Test Data at Natural Temperature CUSTOMER LET CUST. PT./No OUR. PT./No PCW23098P15.0-12V-3300-F Quantity Pcs TEMP:25 **ENVIRONMENT** Measuring Condition 30cm 12.0VDC HUM. 65% **Electrical Characteristics** Resonant SPL Current No. Frequency (dB) (mA) (Hz) 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 MIN MAX X R 2009-10-10 Date L.Liu Test. Chk. J.Yang J.G.Rui Apr. Note Date Name PCW23098P15.0-12V-3300-F 050303.01 Page: 6/6 Issue