SPECIFICATION FOR APPROVAL

Customer:

Description: ELECTRO MAGNETIC BUZZER

Soberton Part No. : WST-1606S-2

Date: 2014-09-03

Customer Model No. :

Date of Approval	
Authorization	
Signature	

Soberton Inc.

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Approved	Checked	Design
Jasmine	Frank	Jim
2014/09/03	2014/09/03	2014/09/03

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A:SCOPE

This specification applies magnetic buzzer, WST-1606S-2

B:SPECIFICATION

Test condition:TEMP=+25±2 °C Related humidity=65±5% Air pressure:860-1060mbar

	Test condition. LE			1ty-03±3% All pressure.800-1000mbai
NO.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	6.0	
2	Operating Voltage	Vo-p	4-7	
3	Mean Current	mA	Max.50	Applying rated voltage direct current
4	Coil Resistance	Ω	/	
5	Sound Output	dBA	85/10cm	Distance at 10cm(A-weight free air), Applying rated voltage direct current
6	Rated Frequency	Hz	1900-2400	
7	Operating Temp	$^{\circ}\! \mathbb{C}$	-20-+60	
8	Storage Temp	$^{\circ}\! \mathbb{C}$	-30-+70	
9	Dimension	mm	φ 16.0×H14.0	See attached drawing.
10	Weight	gram	4.8	
11	Material		PPO(Black)	
12	Terminal		Pin type	See attached drawing
13	Storage life	month	6	6 months preservation at room temp(25±3℃),Humidity40%
14	Environmental Protection Regulation		RoHS	

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C:ENVIRONMENT TEST

N o.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +70°C for 96 hours.	After the test the part shal meet specifications
2	Low temp. test	After being placed in a chamber at -30°C for 96 hours	without any degradation in appearance and
3	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of; +70°C 30 mi 30 mi 60 min	performance except SPL. after 4 hours at $+25^{\circ}\mathbb{C}$, The SPL shall be in $\pm 10 \text{dBA}$ compared with initial one.
4	Temp./Humidity Cycle	The part shall be subjected to 10 cycle shall be 24 hours and consist of; +70°C +25°C a b c:80~98%RH 3hrs 12±0.5hrs 3hrs c 24hours	

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E:MECHANICAL CHARACTERISTICS

No	Item	Test condition	Evaluation standard
1	Solder ability	Lead terminal are immersed in rosin for 5seconds and then immersed in Solder bath of $+250\pm5^{\circ}$ C for 3 ± 0.5 second	90% min.lead terminals shall be wet with solder
2	Soldering Heat Resistance	Lead terminal are immersed in soldering bath of +250±5°C for2±0.5 Second.	No interference in operation
3	Terminal Mechanical Strength	Apply the terminal with 1KG strength for 1 minute	No damage and cutting off
4	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3G). The vibration test shall consist of 2 hours per axis in each three axes(X,Y,Z), Total 6 hours.	After the test the part shall meet specifications without any damage in appearance and performance except SPL.SPL should be in
5	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z),(a total of 9 times).	±10dBA compared with initial one.

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D:RELIABILITY TEST

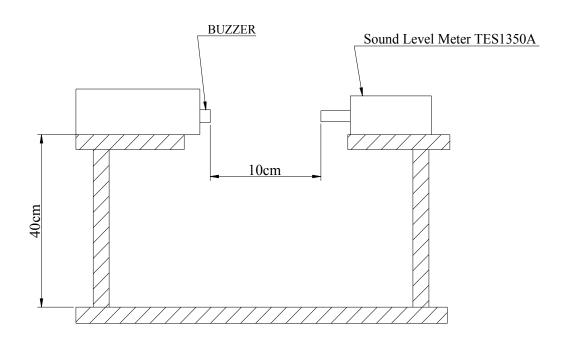
No.	Item	Test condition	Evaluation standard
1	Operating life test	 Ordinary temperature The part shall be subjected to 96 hours at room temperature (+25±10°C) High temperature The part shall be subjected to 72 hours at +60°C with 6.0V applied. Low temperature The part shall be subjected to 72 hours at -20°C with 6.0V applied. High and Low Voltage Applying 4 voltage and 7 voltage, available time 24 hours each. 	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25°C, The SPL should be in ±10dBA compared with initial one.

TEST CONDITION.

 $Standard\ Test\ Condition\ : a) Temperature: +5 \sim +35 ^{\circ} C \ b) Humidity: 45 \sim 85 \% \ c) Pressure: 860 \sim 1060 mbar$ $Judgement\ Test\ Condition: a) Temperature: +25 \pm 2 ^{\circ} C \ b) Humidity: 60 \sim 70 \% \ c) Pressure: 860 \sim 1060 mbar$

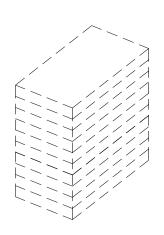
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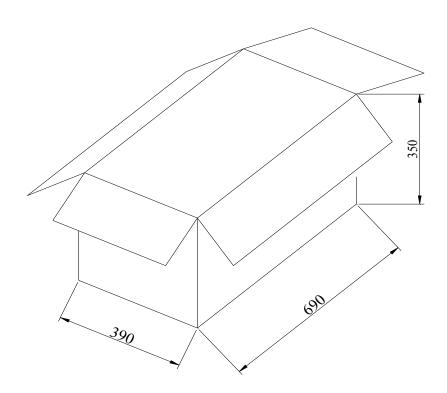
F: INSPECTION FIXTURE 测试架



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H:包装规格:

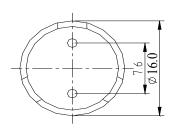


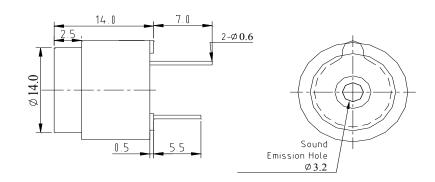


包装箱	长×宽×高(mm)	包装数量(只)		
吸塑盒	$320\times170\times28$	50		
小纸箱	$340 \times 190 \times 310$	500		
大纸箱	690×390×350	2000		

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H: DIMENSIONS|外观尺寸图|





Tolerance: ± 0.5 Unit:mm

I: FREQUENCY RESPONSE

