

SPECIFICATION FOR PIEZO ELECTRIC BUZZER

TOTAL PAGE 08 <u>www.be-star.com</u> RoHS

Customer		Model Name	BPT6012H15.5W080 LF
Customer P/N		Product No.	035403
Date	28 Mar. 09	Issue No.	BS/TEP01.668A
Page	01 of 08	Issue Date	09/03/28

- 1.Description
- 2.Dimension
- 3. Reliability Test
- 4. Notice
- 5.Packing
- 6. History change record

Drawn by	Checked by	Approved by	Customer approved

BESTAR ELECTRONICS INDUSTRY CO.,LTD

No.199 HuangHe West Road.New district, ChangZhou, JiangSu Province, P.R. China



BPT6012H15.5W080 LF

1.Description

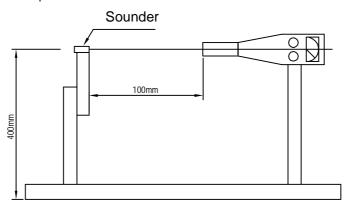
1.1 The specification relates to the piezoelectric sounder intended to be used in alarm sysytems. Please contact us before using any of the products in the applications not described above.

1.2 Electrical and Mechanical Characteristics

No.	Item	Specification 12 Vp-p					
1.	Rated Voltage(Square Wave)						
2.	Operating Voltage	10~60Vp-p					
3.	a)Rated Current	max.30mA					
4.	Capacitance at 120Hz	180±30%nF Min.100dB					
5.	a)Sound Output at 2.8KHz,10cm						
6.	Resonant Frequency	2.8± 0.2 KHz					
7.	Operating Temperature	-40+85 ° C -40+85 ° C					
8.	Storage Temperature						
	a)Value applying at rated voltage.(12Vp-p square wave,1/2duty)						

1.2 Standard test Fixture

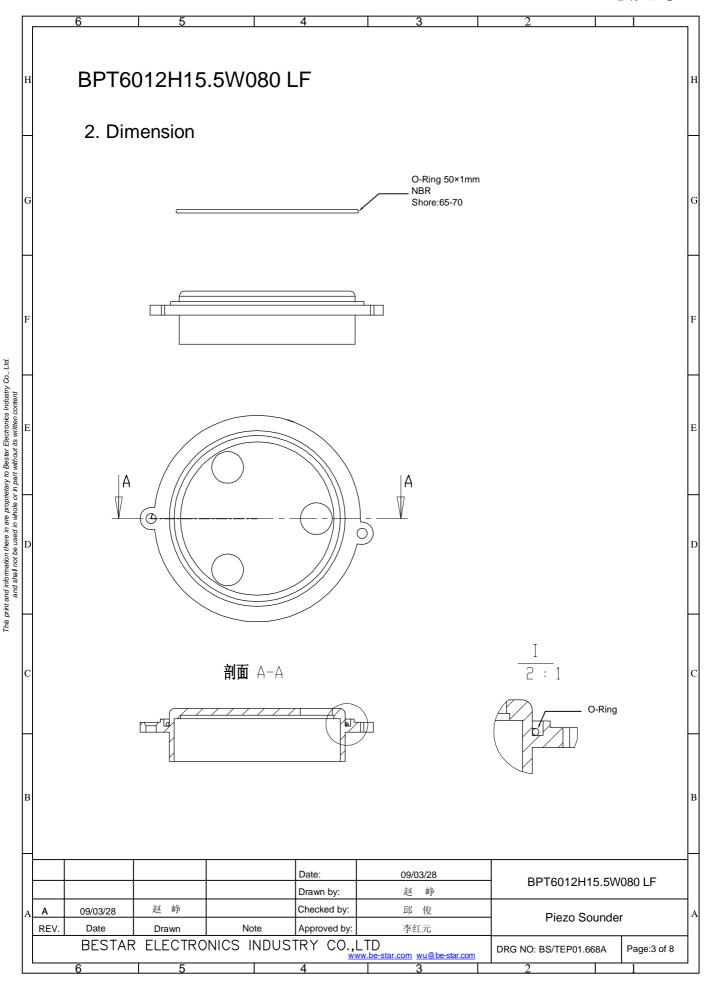
No reaction in space with in 400mm in all direction



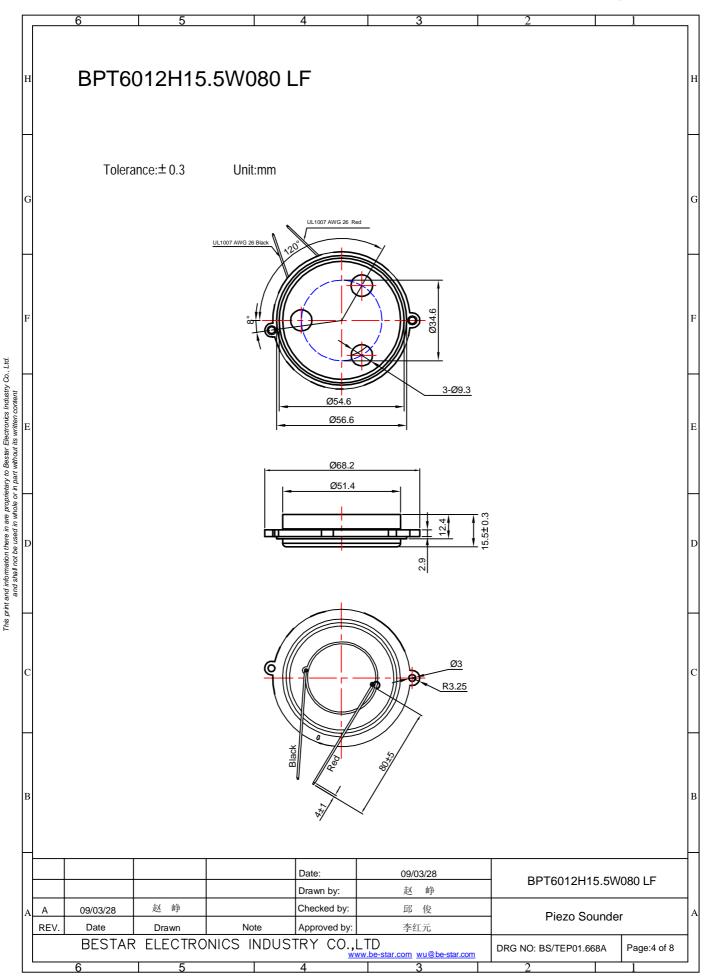
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						Date:	09/03	3/28	BI	DT6012H1	/000 I E			
				Drawn by: 赵 峥				峥	BPT6012H15.5W080 LF					
A	Α	09/03/28	赵峥		c	Checked by:	邱	俊		Piezo Sounder				
	Rev.	Date	Drawn	Note Approved by: 李红元					Fiezo Souridei					
	BESTAR ELECTRONICS INDUSTRY CO.,LTD						DRG NO:	DRG NO: BS/TEP01.668A Page:2		Page:2 of 8				
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BPT6012H15.5W080 LF 3. Reliability test 3.1 Dry heat test +85 ° C Storage Temperature 96hrs Duration Recovery period 1 hrs 3.2 Cold test Storage Temperature -40 ° C 96hrs Duration Recovery period 1 hrs 3.3 Resistance to temperature cycling Low temperature -40 ° C +85 ° C High temperature Rate of temperature change ± 3° C/min± 0.6° C/min Number of cycle 200 **Duration of exposure** 1 hrs Recovery period 4 hrs During the test, the piezo is powered and gives out a 30 seconds audible alarm signal at 105dB with a pause of 10 minutes between each sounding period 3.4 Damp heat test +40 ° C Storage Temperature 95 ± 3% Storage Humidity Storage time 96hrs 3.5 Vibration Test Vibration Frequency 10~55Hz **Amplitude** 1.53mm Duration 2hrs each of 3 axis 3.6 Resistance to drop on concrete floor Surface concrete floor Heiaht 2m Number of tests 2 in each 6 directions Number of units 3.7 Pull test The electrical connectors must be soldered directly on the piezo. The wires must be very flexible, supple. Using the tensionmeter tested the piezodisc and membrance more than 20 N,pull force of the membrance and crust more than 20N too. Notice: All specification must be satisfied in this condition. SPL: allowable deviation \pm 5dB of the initial value after testing Date: 09/03/28 BPT6012H15.5W080 LF Drawn by: Checked by: 09/03/28 赵 峥 Α 邱 俊 Piezo Sounder Approved by: REV. Drawn Note 李红元 ELECTRONICS INDUSTRY CO.,LTD BESTAR DRG NO: BS/TEP01.668A Page:5 of 8

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