## SPECIFICATION FOR PIEZO ELECTRIC SOUNDER

Customer			
Customer P/N			
BeStar Model Name	BSP1109-05H1.7 LF		
Product No.	056400		
Issue No.	BS/TEP01.448B		
Issue Date	07/06/15		

### Approval:

- 1 Characteristics
- 2.Dimension
- 3.Reliability Test
- 4 Tape on Reel Packing
- 5 Notice
- 6. History change record

Drawn by	Checked by	Approved by	Customer approved
扬红烨	韩学慧	程久生	

For conform to the European Union Directive on the Restriction of Hazardous Substances(RoHS), this type of productions forbid use all the hazardous substances as follow: Lead Cadmium Mercury Hexavalent chromium

Polybrominated biphenyls (PBB) Polybrominated diphenyl ethers (PBDE)



 BESTAR ELECTRONICS INDUSTRY CO.,LTD No.199 HuangHe West Road.New district,changzhou, jiangsu Province,P.R.China Tel:86-519-8222567 Fax:86-519-8222551 Http:www.be-star.com E-mail: wu@be-star.com, info@be-star.com

# BSP1109-05H1.7 LF

### 1. Characteristics

#### 1.1 Features

6

H

1. SMD;thinner , smaller size

5

- 2. High S.P.L.; and clear sound
- 3. Reflowable;RoHS complant
- 4. Tape & Reel supply
- 5. Minimum quantity (one reel): 1000 pcs.

#### 1.2 Electrical and Mechanical Characteristics



Η

G

Е

D

No.	Item	Specification			
1.	Rated Voltage(Square Wave)	5 Vp-p			
2.	Operating Voltage	125Vp-p			
3.	a)Rated Current	max.1mA			
4.	Capacitance at 120Hz	10± 30%nF			
5.	a)Sound Output at 4.1KHz,10cm	Min.70dB(after reflow no changes)			
6.	Resonant Frequency	4.1 KHz			
7.	Operating Temperature	-20+70 ° C			
8.	Storage Temperature	-30+80 ° C			
9.	Weight	1.6g ±25%			
	a)Value applying at rated voltage.(5Vp-p square wave,1/2duty)				

4

#### 1.3 Standard test Fixture

No reaction in space with in 400mm in all direction



В



	6 5	4	3	2	BCSTO Acoustic
				·       –   ·   ·	
	BSP1109-05H1.7	7   F			
I		<b>_</b> ,			
	3. Reliability test				
	3.1 high temperature test				
	Temperature		80°C		
	Duration	Ş	96hrs		
ť	3.2 low temperature test Temperature	<u>_</u> ′	30° C		
	Duration		6hrs		
	3.3temperature cycle test	·	-		
1		+70° C			
	-20° C	20°C +20°C	<u>&gt;</u>		
	30min	15min 30min 15m	in		
	Cycles		2		
	3.4 Humidity test		-		
		55° C 90-95%RH			
1	25°C 90-95% RH				
	<u>5h</u>	0.5h6h	0.5h		
	Cycles		10		
	all these tests above shou	Ild be measured after le	aving normal temperat	ure for 2hrs.	
	3.5 Life test				
	Rated Voltage with the	rated frequency			
	Duration		1000hrs		
	3.6 Vibration Test				
	Vibration Frequency Amplitude		10~55Hz 1.52mm		
	Duration		2hrs each of 3 axis		
	3.7 Drop test	2.113			
	Height		700cm		
1	(to 10mm thickness woo	odenboard)			
	Direction		3		
	3.8 Solderability	0	55 + 5° C		
2	Temperature Duratjon		55±5°C ±0.5sec		
	3.9 Solder Heat Resistance		- 0.0000		
	Temperature		50±10°C		
	Duration		30sec		
	Notice: All specification mus	at he estisfied in this con	dition		
	•	ation $\pm$ 5dB of the initial			
		Date:	07/06/15		
		Drawn by:	杨红烨	BSP1109-05	חו./ LF
В	07/06/15 杨红烨	Checked by:	韩学慧	Piezo Sou	Inder
RE	V. Date Drawn	Note Approved by:	程久生		
	BESTAR ELECTRONIC	S INDUSTRY CO.,LT	D vww.be-star.com_wu@be-star.co	DRG NO: BS/TEP01.44	8B Page:3 of 6
L	6 5	4	www.be-star.com wu@be-star.co	2 2	<u>1</u>

-

Restor





杨红烨

韩学慧

程久生

ww.be-star.com wu@be-star.com

Drawn by: Checked by:

Approved by:

Note

BESTAR ELECTRONICS INDUSTRY CO., LTD

杨红烨

Drawn

07/06/15

Date

В

REV

Piezo Sounder Page:5 of 6

BSP1109-05H1.7 LF

DRG NO: BS/TEP01.448A

# BSP1109-05H1.7 LF

4

6

Η

## 6. History change record

	version No.	Change Items		Date		A	
		Before	After	Dale	Drawn	Approve	
	A			06/11/30	杨红烨	程久生	
	В	packing quantity 1000 pcs / reel	packing quantity 2500 pcs / reel	07/06/15	杨红烨	程久生	
							——————————————————————————————————————
							1
							1
							0
							F
							I
			Date:	07/06/15		BSP1109-05H1.7 LF	
			Drawn by:	杨红烨		Piezo Sounder	
В	07/06/15	杨红烨	Checked by:	韩学慧			
	Date	Drawn	Note Approved by:	程久生			
REV.	DECT	AD ELECTRONUC	S INDUSTRY CO.,LTD			BS/TEP01.448B	Page:6 of 6

Acoustic

Η

в