# SPECIFICATION For Electro-Magnet Transducer

Customer	
Customer P/N	
BeStar Model Name	SMT8585-03H3.6-06LF
Product No.	050115
Issue No.	BS/TET01.490A
Issue Date	07/08/01

# Approval:

- 1. Characteristics
- 2. Dimension
- 3. Reliability Test
- 4. Surface Mounting Condition
- 5. Soldering Pattern
- 6. Tape on Reel Packing
- 7 Notice
- 8. History change record

Drawn by	Checked by	Approved by	Customer approved
魏奉龄	陶红仲	张考琴	

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

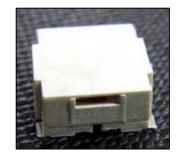
E-mail: wu@be-star.com, info@be-star.com

# 1. Characteristics

### 1.1 Features

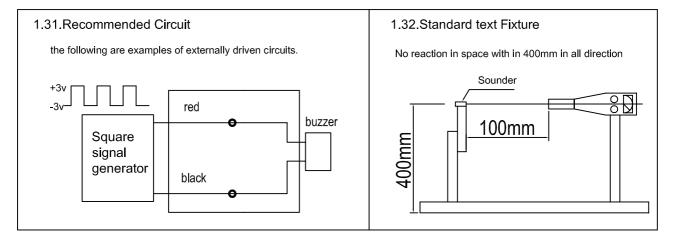
- 1. SMD; thinner, smaller size
- 2. High S.P.L.; and clear sound
- 3. Reflowable;RoHS complant
- 4. Tape & Reel supply
- 5. Minimum quantity (one reel): 1000 pcs.

### 1.2 Electrical and Mechanical Characteristics



No.	Item	Specifications				
1	Rated Voltage	6Vp-p				
2	Operating Voltage	69 Vp-p				
3	Rated Current	max.110mA				
4	Sound Output (at 10cm)	min.85dB				
5	Resonance Frequency	2730Hz				
6	Coil Resistance	18±3ohm				
7	Operating Temp.	-40+85°C				
8	Storage Temp.	-40+85°C				
9	Housing Material	LCP				
10	Weight	0.5 g				
Current/Sound Output:value applying rated voltage :						
	2730Hz,6.0Vp-p,1/2 duty,square wave					

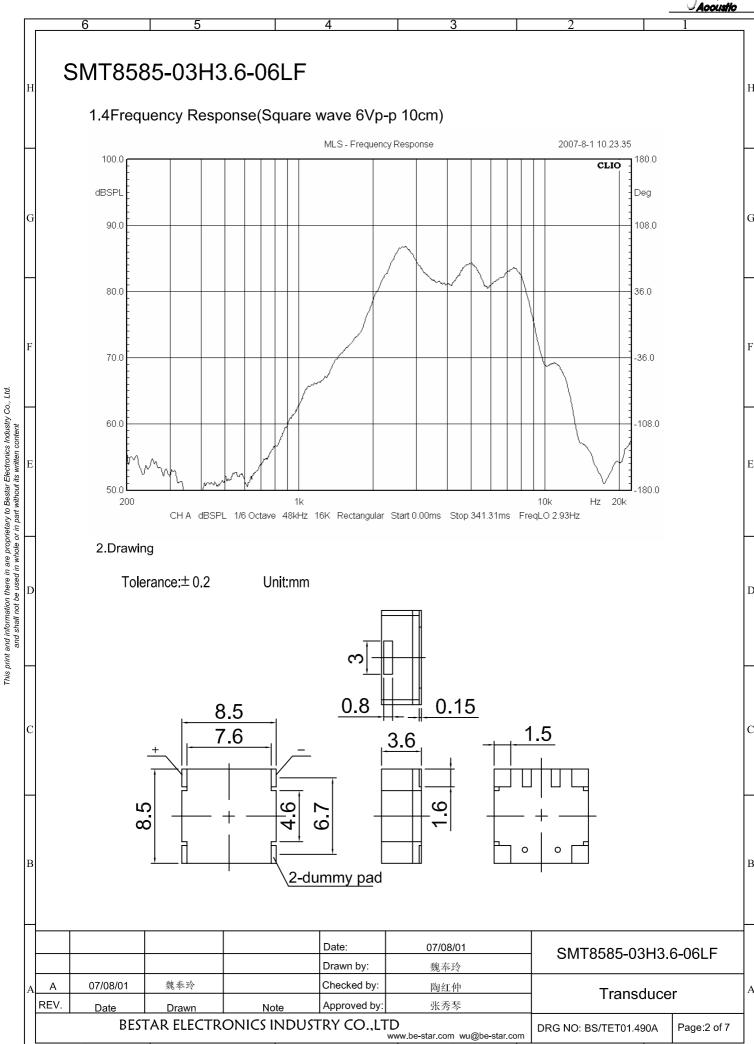
#### 1.3 Test method:



$\neg$									
					Date:	07/08/01	SMT8585-03H3.6-06LF		
					Drawn by:	魏奉玲			
Α	Α	07/08/01	魏奉玲		Checked by:	陶红仲	Transducer		
	REV.	Transducer Note Approved by: 张秀琴					;i		
		BEST	TAR ELECTR	DRG NO: BS/TET01.490A	Page:1of 7				
		_			4			<del></del>	

This print and information there in are proprietary to Bestar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content





Page:3 of 7

DRG NO: BS/TET01.490A

www.be-star.com wu@be-star.com

BESTAR ELECTRONICS INDUSTRY CO.,LTD

# 4. Surface Mounting Condition

In automated mounting of The SMD Sound Transducers on printed circuit boards, any bending, expanding and pulling forces or shocks against the SMD Sound Transducers shall be kept minimum to preven them from electrical failures and mechanical damages of the devices.

## Soldering(Reflow)

- (1)Solderings of The SMD Sound Transducers shall conform to the soldering conditions in the individual specifications.
- (2) The SMD Sound Transducers are designed for "Reflow Solderings"
- (3)In the reflow solderings,too high soldering temperatures and too large tempearture gradient such as rapid heating or cooling may cause electrical failures and mechanical damages of the devices.

Follwing soldering conditions are recommend; Refer to Fig.1

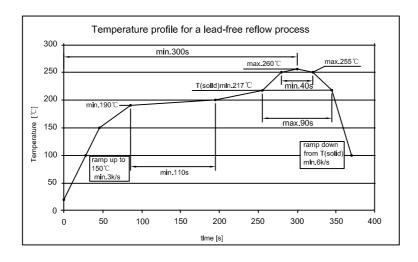
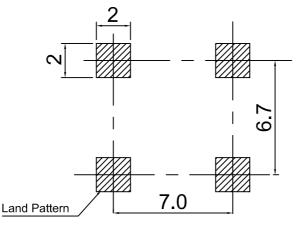


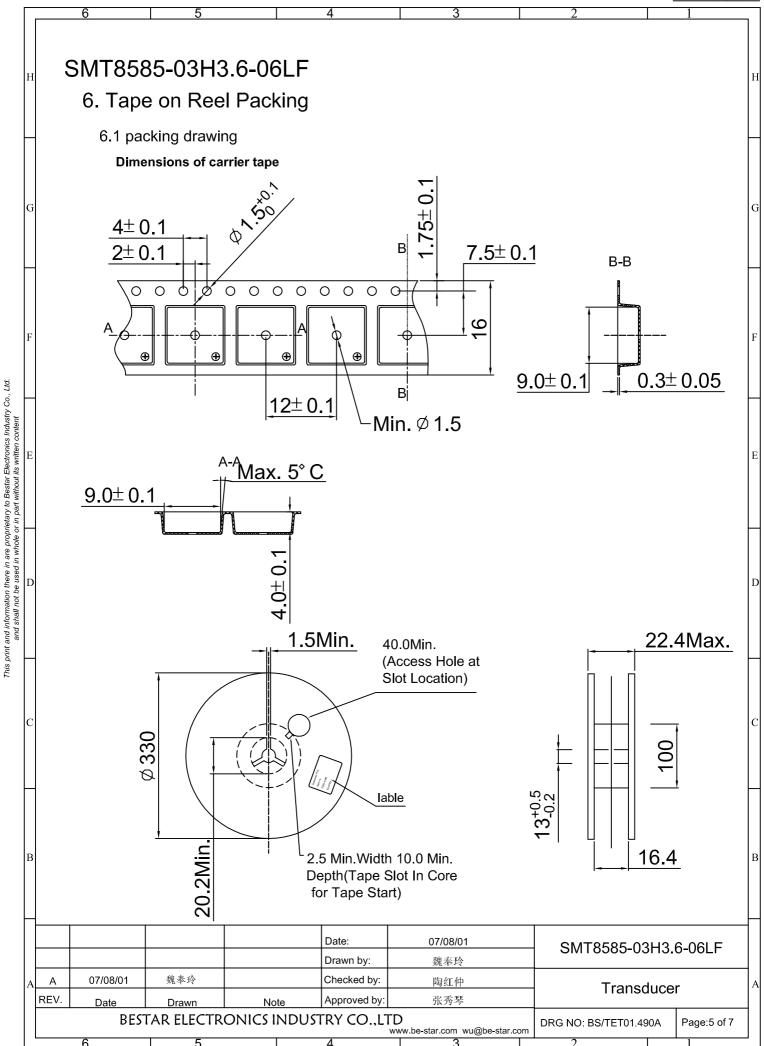
Fig. 1 Recommended soldering Temperature-Time profile (Reflow soldering)

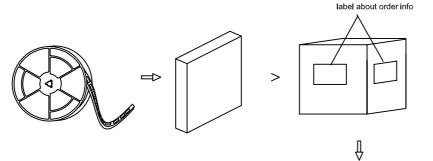
## 5. Soldering Pattern



					Date:	07/08/01 魏奉玲	SMT8585-03	H3.6	6-06LF
Α	Α	07/08/01	魏奉玲		Checked by:	陶红仲	Transducer		<u>-</u>
	REV.	Date	Drawn	No	te Approved by:	张秀琴	Transducer		
	BESTAR ELECTRONICS INDUSTRY CO.,LTD  www.be-star.com wu@be-star.com						DRG NO: BS/TET01.49	0A	Page:4 of 7
		_	_		A		2		1

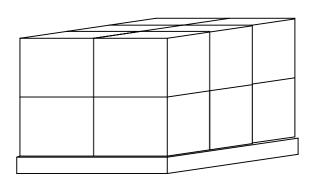
is print and information there in are proprietary to Bestar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content





### 6.2 packing quantity

- 6.21 1000pcs/reel
- 6.22 5reel/carton
- 6.23 5000 pcs/carton in total
- 6.24 carton size 38x28x37cm
- 6.25 12carton/tray
- 6.26 tray size 85x77x74cm



#### 7.Notice

#### 7.1 The products mustn't be washed

#### 7.2 Storage Condition

The products should be stored in the room ,where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to + 40°C Humidity: 15 to 85% R.H.

#### 7.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after deliveried under the conditions of a sealed and an unopened package. Please use the products within six months after deliveried. If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty.Please confirm solderability and characteristics for the products regularly.

#### 7.4 Notice on Product Storage

(1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.

(2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

					Date:	07/08/01	SMT8585-03H3.6-06LF	
					Drawn by:	魏奉玲		
Α	Α	07/08/01	魏奉玲		Checked by:	陶红仲		
	REV.	Date	Drawn Note Approved by: 张秀琴				Transduce	
		BES	TAR ELECTR	DRG NO: BS/TET01.490A	Page:6 of 7			
. '		_			4		·	



SMT8585-03H3.6 LF 8. History change record Change Items version Date Approved Drawn No. Before After 07/08/01 魏奉玲 张秀琴 Date: 07/08/01 SMT8585-03H3.6-06LF Drawn by: 魏奉玲 07/08/01 魏奉玲 Checked by: 陶红仲 Transducer REV. Approved by: 张秀琴 Note Drawn BESTAR ELECTRONICS INDUSTRY CO.,LTD www.be-star.com wu@be-star.com wu@be-star.com DRG NO: BS/TET01.490A Page:7 of 7

This print and information there in are proprietary to Bestar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content