

SPECIFICATION FOR ELECTRO-MAGNET TRANSDUCER

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

Customer		Model Name	SMT8585-03H03 LF
Customer P/N		Product No.	050201
Date	04 Sep.18	Issue No.	BS/TET01.048D
Page	01 of 08	Issue Date	18/09/04

Approval:

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

Drawn by	Checked by	Approved by	Customer approved
包丽萍	李梅芳	赵峥	

BeStar Holding Co., Ltd.

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

Tel: +86 519 88222567 **Fax:** +86 519 88222551

*E-mail:*wu@be-star.com *http://www.be-star.com*

文件号: BS/QDTE045B

SMT8585-03H03 LF

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



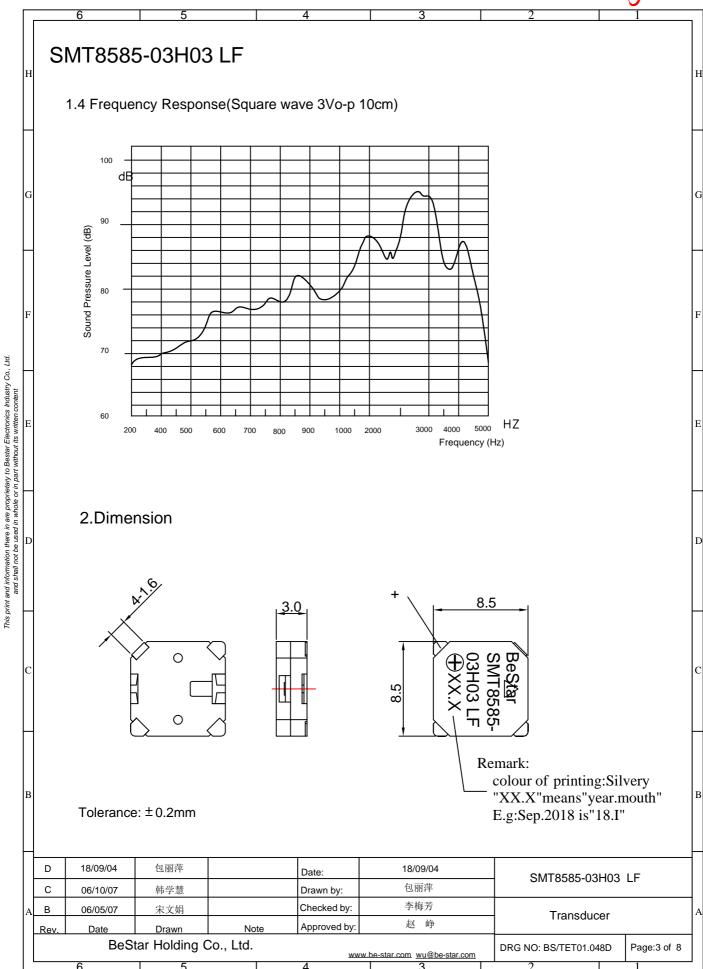
No.	Item	Specifications				
1	Rated Voltage	3Vо-р				
2	Operating Voltage	25 Vo-p Max.110(Typical 80)mA				
3	Current					
4	Sound Output (at 10cm)	Min.86dB				
5	Rated Frequency	2731Hz				
6	Coil Resistance	16± 2.4 ohm				
7	Operating Temp.	-40+85°C				
8	Storage Temp.	-40+85°C				
9	Weight	Max 0.5g				
×(Current/Sound Output:value	e applying rated voltage				
(2731Hz,1/2 duty,square wave)						

1.3 Test method:

1.31.Recommended Circuit the following are examples of externally driven circuits. 1.32.Standard text Fixture No reaction in space with in 400mm in all direction Square signal generator buzzer

\neg										
	D	18/09/04	包丽萍		Date:	18/09/04	- SMT8585-03H03 LF			
	С	06/10/07	韩学慧		Drawn by:	包丽萍	010110303-03	Transducer		
A	В	06/05/07	宋文娟		Checked by:	李梅芳	Transdu			
	Rev.	Date	Drawn	Note	Approved by:	赵 峥	Transducei			
	BeStar Holding Co., Ltd.						DRG NO: BS/TET01.0	48D	Page:2 of 8	
		6	5		3	4	2.		1	_







SMT8585-03H03 LF 3. Reliability Test 3.1 High temp. storage life test +85°C **Temperature Duration** 240hrs 3.2 Low temp. storage life test Temperature -40°C Duration 240hrs 3.3 Life test in normal temperature Power supply Rated voltage 96hrs **Duration** 3.4 Temperature shock test 14 Cycles +25°C -40° C 30min 5min 30min 15min 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 3.5 Humidity cycle test 10 Cycles 65°C 90-95% RH 25°C 90-95% RH 10h 1h 12h 1h 3.6 High temp. life test Temperature +85°C Duration 96hrs 3.7 Low temp. life test -20°C **Temperature** 96hrs Duration All these tests above should be measured after leaving normal temperature for 4hrs. 3.8 Vibration Test Vibration Frequency 50~100~50Hz 15min Time Acceleration 5g Direction x.y &z 2h (total 6hrs) 3.9 Drop test 150cm(drop to concrete floor) Height Direction one time in each 6 planes(total of 6 times) 3.10Solderability Temperature of soldering pot 250°C ± 5 Duration 2 ± 0.5sec 3.11Pin lead strength Force 10N Duration 10 ± 1sec Notice: All specification must be satisfied in this condition except SPL. SPL shall be 83dB or more. D 18/09/04 包丽萍 18/09/04 Date: SMT8585-03H03 LF С 06/10/07 韩学慧 Drawn by: 包丽萍 06/05/07 宋文娟 Checked by: 李梅芳 В Transducer Approved by: 赵峥 Note Drawn BeStar Holding Co., Ltd. DRG NO: BS/TET01.048D Page:4 of 8 www.be-star.com wu@be-star.com



SMT8585-03H03 LF

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 to a minimum to prevent them from electrical failures and mechanical damages of the devices. Soldering(Reflow)

- (1) Soldering of The SMD Sound Transducers shall conform to the soldering conditions in the individual specifications.
- (2) The SMD Sound Transducers are designed for "Reflow Soldering"
- (3)In the reflow soldering,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

Temperature profile for a lead-free reflow process

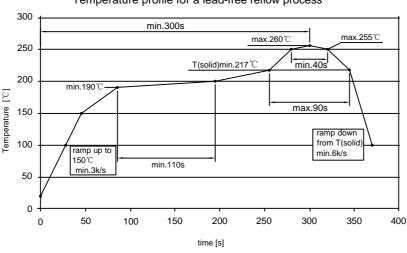
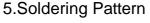
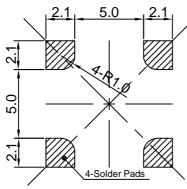


Fig. 1 Recommended soldering Temperature-Time profile (Reflow soldering)

Notice: All specification must be satisfied in this condition except SPL. SPL shall be 83dB or more.

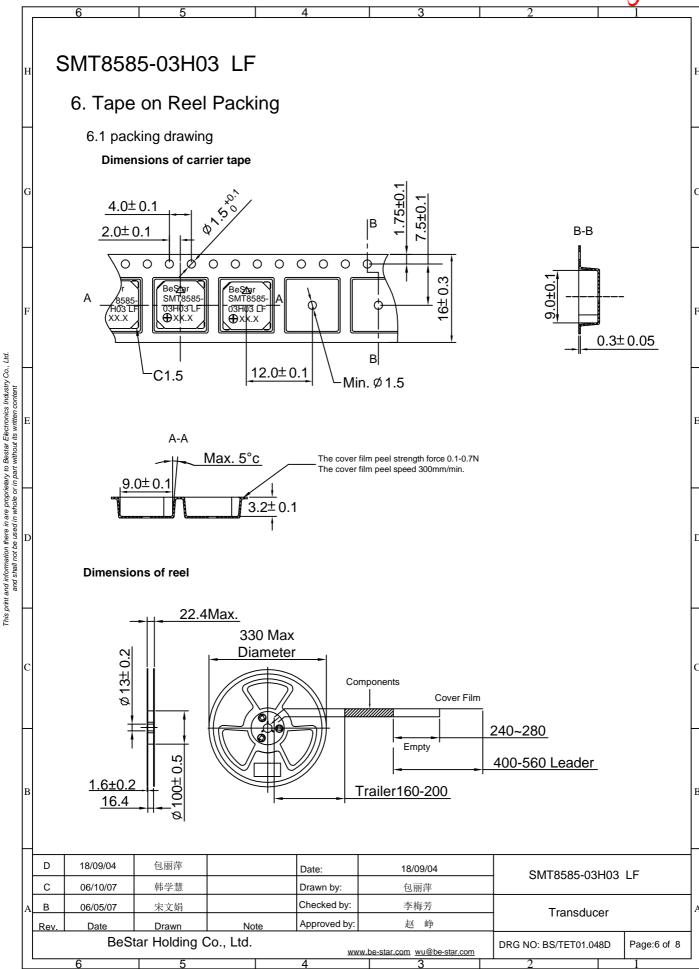


This print and information there in are proprietary to Bestar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content



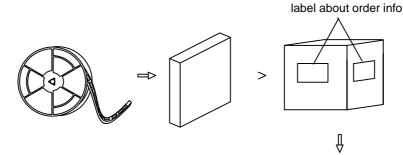
										┸
	D	18/09/04	包丽萍		Date:	18/09/04	SMT8585-03H03 LF			Ī
	С	06/10/07	韩学慧		Drawn by:	包丽萍	- SIVIT 6363-031 103 EF		LI	
Α	В	06/05/07	宋文娟		Checked by:	李梅芳	Transducer			
	Rev.	Date	Drawn	Note	Approved by:	赵峥	Transduc			
	BeStar Holding Co., Ltd.						DRG NO: BS/TET01.04	18D	Page:5 of 8]
		6	5		1	2	T -	1	_	







SMT8585-03H03 LF



6.2 packing quantity

6.2.1 1000pcs/reel

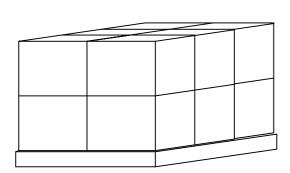
6.2.2 5reel/carton

6.2.3 5000 pcs/carton in total

6.2.4 carton size 38x28x37cm

6.2.5 12carton/tray

6.2.6 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 delivery. 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.

Г										┸
	D	18/09/04	包丽萍		Date:	18/09/04	SMT8585-03	SMT8585-03H03 LF		
	С	06/10/07	韩学慧		Drawn by:	包丽萍	Transducer			
A	В	06/05/07	宋文娟		Checked by:	李梅芳				A
	Rev.	Date	Drawn	Note	Approved by:	赵峥	Transduc			
	BeStar Holding Co., Ltd.					v.be-star.com wu@be-star.com	DRG NO: BS/TET01.04	8D	Page:7 of 8	
ı	6 5 1 3 1						2		1	_



SMT8585-03H03 LF 8. History change record Change Items version Date Drawn Approved No. Before After Α 02/06/03 姜丽敏 查红红 ROHS В 06/05/07 宋文娟 06/10/07 С Change the direction of reel 韩学慧 郭 敏 There is no printing increase printing information 包丽萍 赵峥 D 18/09/04 information. 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 D 18/09/04 包丽萍 18/09/04 Date: SMT8585-03H03 LF С 06/10/07 韩学慧 包丽萍 Drawn by: В 06/05/07 宋文娟 Checked by: 李梅芳 Transducer Approved by: Drawn

DRG NO: BS/TET01.048D

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

Page:8 of 8

BeStar Holding Co., Ltd.