

SPECIFICATION FOR ELECTRO-MAGNET TRANSDUCER

TOTAL PAGE 09 <u>www.bestargroups.com</u> RoHS

Customer		Model Name	SMT5050-03H03-02 LF
Customer P/N		Product No.	050715
Date	08 June. 2018	Issue No.	BS/TET01.530E
Page	01 of 09	Issue Date	18/06/08

Approval:

- 1. Characteristics
- 2.Dimension
- 3. Reliability Test
- 4. Frequency Characteristics Chart
- 5. Surface Mounting Condition
- 6.Reel Packing
- 7.Notice
- 8. History change record

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

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SMT5050-03H03-02 LF

1. Characteristics

1.1 Features

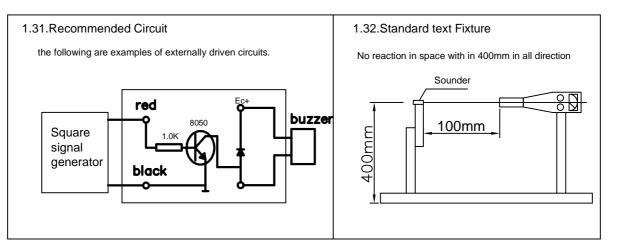
- 1. SMD; thinner, smaller size
- 2. High S.P.L.; and clear sound
- 3. Reflowable; RoHS complant
- 4. Tape & Reel supply
- 5. Minimum quantity (one reel): 2000 pcs.



1.2 Electrical and Mechanical Characteristics

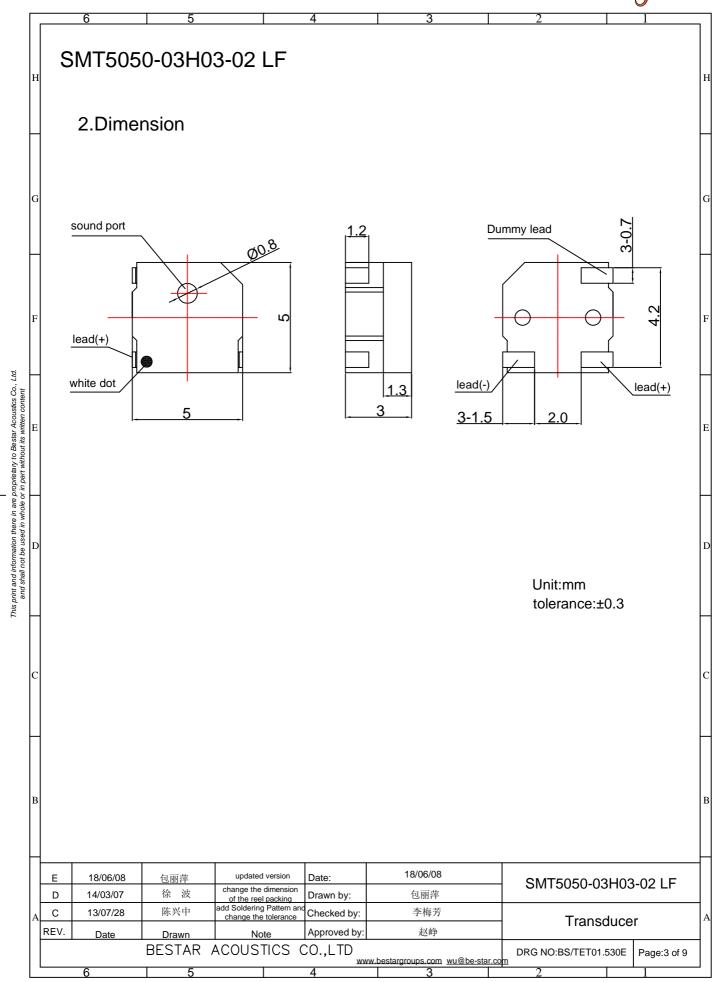
No.	Item	Specifications			
1	Rated Voltage	3Vo-p			
2	Operating Voltage range	2-4Vo-p			
3	Rated Frequency	4000Hz			
4	Rated Current	max.110mA			
5	Coil Resistance	12±3 Ω			
6	a) Sound Pressure Level at 10cm	min.78dB			
7	Operating Temperature	-20+70℃			
8	Storage Temp.	-30+80℃			
9	Weight	0.3 g			
а	a)Value applying rated voltage (4000Hz,1/2 duty,square wave)				

1.3 Test method:

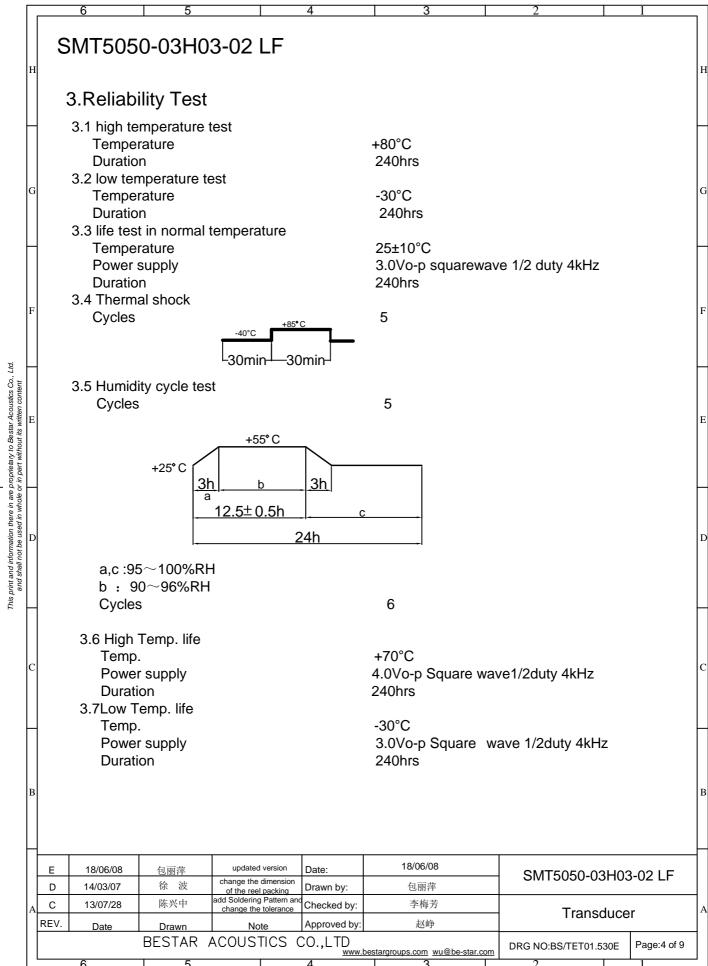


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	Е	18/06/08	包丽萍	updated version	Date:	18/06/08	SMT5050-03H03-02 LF		2-02 E	
	D	14/03/07	徐 波	change the dimension of the reel packing	i Drawn by:	包丽萍	310113030-0	Transducer		
$_{\rm A}$	С	13/07/28	陈兴中	add Soldering Pattern and change the tolerance	Checked by:	李梅芳	Trans			
	REV.	Date	Drawn	Note	Approved by:	赵峥	Transducer			
		BESTAR ACOUSTICS CO., LTD www.bestargroups.com wu@be-star.com				m DRG NO:BS/TET01.	530E	Page:2of 9		
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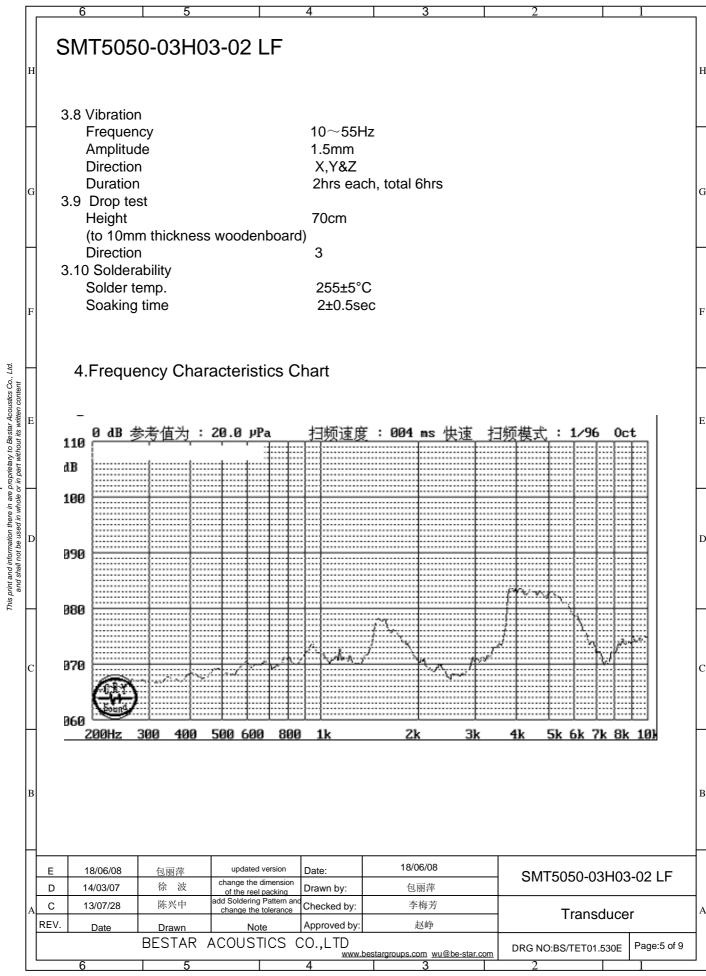














SMT5050-03H03-02 LF

5. 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

Temperature profile for a lead-free reflow process

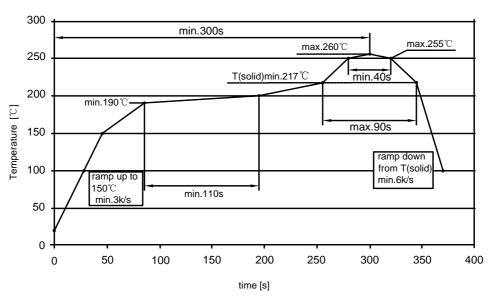


Fig. 1 Recommended soldering Temperature-Time profile (Reflow soldering)

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Α	С	13/07/28	陈兴中	add Soldering Pattern and change the tolerance	Checked by:	李梅芳	Trance			
	REV.	Date	Drawn	Note	Approved by:	赵峥	Transc			
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