

SPECIFICATION FOR MAGNETIC Transducer

TOTAL PAGE 07 <u>www.be-star.com</u> RoHS

Customer		Model Name	SMT1212-03XH10 LF
Customer P/N		Product No.	050914
Date	15 Dec. 11	Issue No.	BS/TET01.363E
Page	01 of 07	Issue Date	11/12/15

Approval:

- 1.Characteristics
- 2.Dimension
- 3.Reliability test
- 4. Surface mounting condition
- 5.Packing
- 6.Notice
- 7. History change record

Drawn by	Checked by	Approved by	Customer approved
徐 波	赵峥	王平	

BESTAR ELECTRONICS INDUSTRY CO.,LTD

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



SMT1212-03XH10 LF

1. Characteristics:

1.1 Features

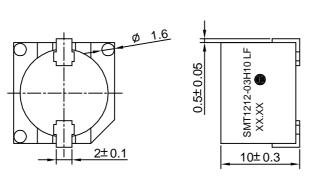
- 1. SMD; thinner, smaller size
- 2. High S.P.L.; and clear sound
- 3. Reflowable;RoHS complant
- 4. Tape & Reel supply
- 5. Minimum quantity (one reel): 200 pcs.

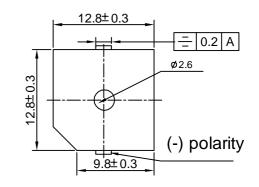
1.2Electrical and Mechanical Characteristics

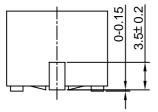


No	Туре	Specifications					
1	Rated Voltage	3V					
2	Operating Voltage	2~5V					
3	a)Rated Current	Max 30mA					
4	a) Sound Output at 10cm	Min 85 dB					
5	a)Resonant Frequency	2300 ± 300 Hz					
6	Temperature Range	-40~+85 °C					
7	Storage Temperature	-40~+90 °C					
8	Weight	3.5g					
	a)Value applying rated voltage(DC)						
	Sound Output after reliability test more than 80 dB						

2. Dimension:







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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 prevent 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

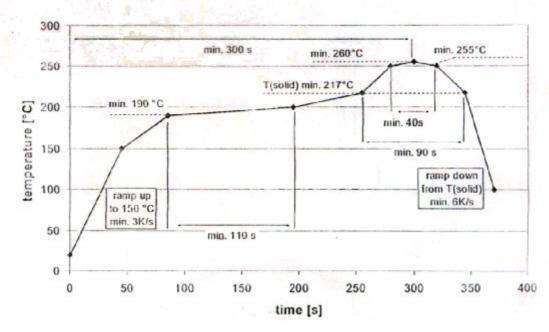
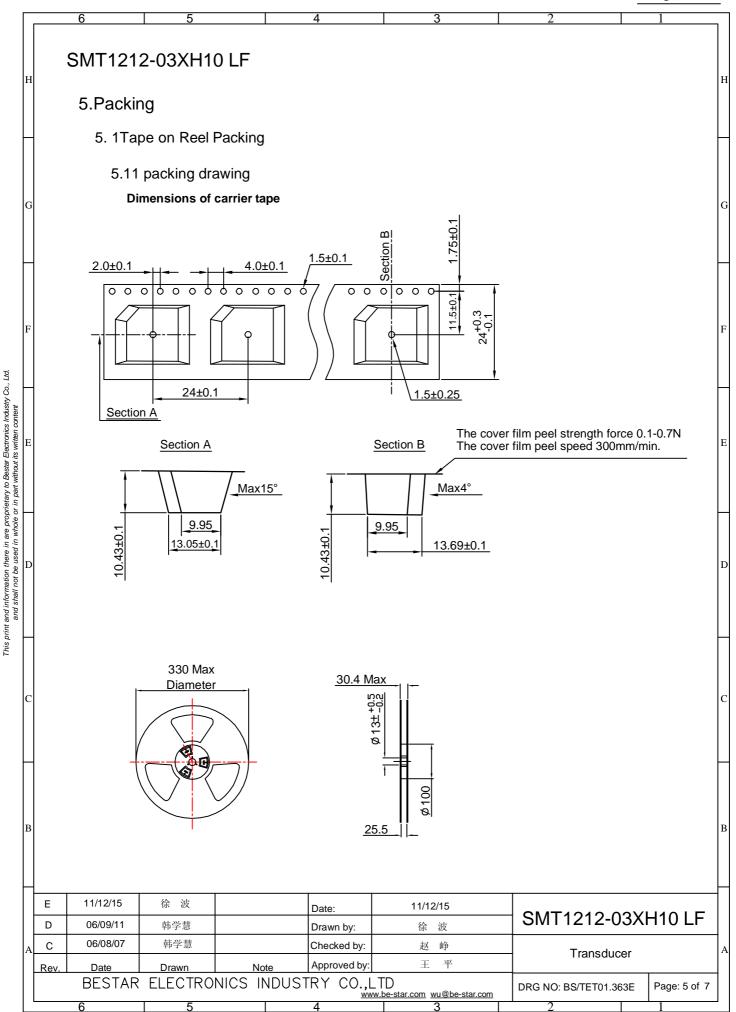


Fig. 1 Recommended soldering Temperature-Time profile (Reflow soldering)

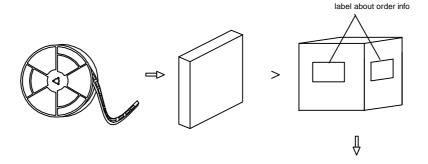
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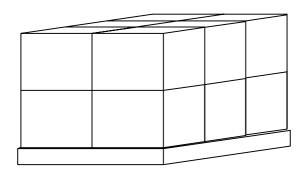
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SMT1212-03XH10 LF



5.12 Reel Packing

- 1)200pcs/reel
- 2)5reel/carton
- 3)1000 pcs/carton in total
- 4)carton size 38 x 28 x 37cm



6.Notice

6.1 The products mustn't be washed

6.2 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.

6.3 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.

6.4 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.

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SMT1212-03XH10 LF 7. History change record Change Items version Date Drawn Approved No. Before 06/06/23 韩学慧 郭敏 change polarity 06/07/06 В 韩学慧 郭敏 Change product С 06/08/07 韩学慧 郭敏 quantity per reel Change reel package D 06/09/11 韩学慧 郭敏 Delete customer P/N 11/12/15 Е 王平 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 C В 11/12/15 波 Е 徐 11/12/15 Date: SMT1212-03XH10 LF 06/09/11 D 韩学慧 Drawn by: 徐 波 06/08/07 韩学慧 Checked by: С 赵 Transducer Approved by: Rev. Drawn Note BESTAR ELECTRONICS INDUSTRY CO.,LTD www.be-star.com wu@be-star.com Page: 7 of 7 DRG NO: BS/TET01.363E