

SPECIFICATION FOR ELECTRO-MAGNET TRANSDUCER

TOTAL PAGE 07 www.bestargroups.com RoHS

Customer		Model Name	BMT1201H8.5F-02 LF
Customer P/N		Product No.	010205
Date	05 May. 2014	Issue No.	BS/TET01.004E
Page	01 of 07	Issue Date	2014/05/05

Approval:

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

Drawn by	Checked by	Approved by	Customer approved		
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BMT1201H8.5F-02 LF

1. Characteristics

1.1 Features

- 1. Dimension: Ø12 × 8.5
- 2. High S.P.L.; and clear sound
- 3. RoHS complant
- 4. Minimum quantity (one carton): 3000 pcs.



1.2 Electrical and Mechanical Characteristics

No.	Item	Specifications		
1.	Rated voltage	1.5Vo-p		
2.	Operating voltage range	1-3.5Vo-p		
3.	Rated frequency	2048Hz		
4.	a) Rated current	Max.15mA		
5.	Coil resistance	42ohm± 6ohm		
6.	b) Coil impedance	120ohm		
7.	a) Sound pressure level	min.85dB at 10cm		
8.	Operating temperature	-25+70°C		
9.	Storage temperature	-30+85°C		
10.	Weight	2g		
a) Value applying rated voltage(2048Hz,50%duty,square wave 1.5Vo-p)				

b) Value applying at rated voltage (2048Hz,sine wave measuring current 60 $\,\,\mu$ A)

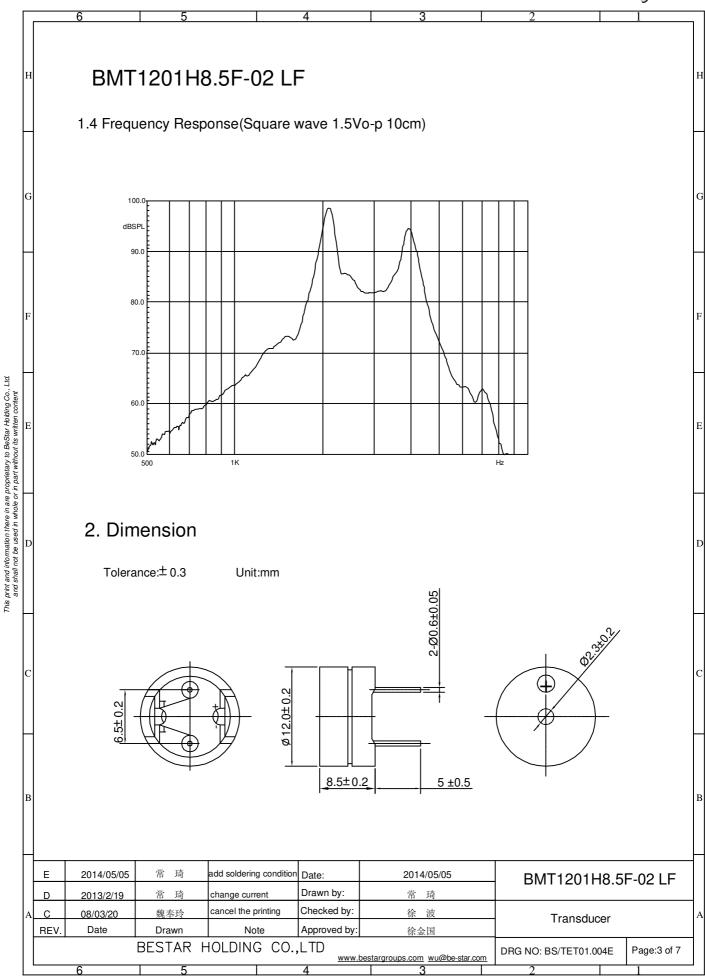
1.3 Test method:

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 Sounder Square signal generator black

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BMT1201H8.5F-02 LF

4. Soldering Condition

4.1 Wave soldewing

- (1) Solderings of The Sound Transducers shall conform to the soldering conditions in the individual specifications.
- (2) The Sound Transducers are designed for "Wave Solderings"
- (3)In the wave 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 wave soldering process

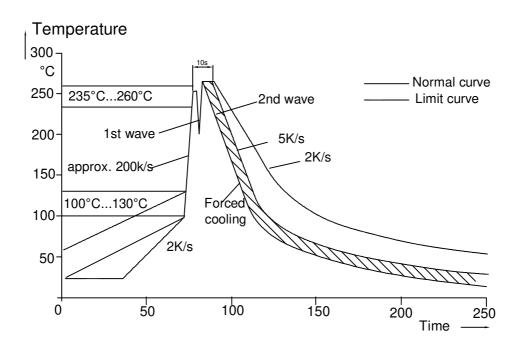


Fig. 1 Recommended soldering Temperature-Time profile (wave soldering)

4.2 Hand Soldering (Recommend using constant searing-iron)
Temperature 360° C± 5° C

Duration

360° C± 5° C ≤ 3sec

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BMT1201H8.5F-02 LF 7. History change record Change Items version Date Drawn Approved No. Before After 05/07/01 陶红仲 程久生 Α change SPL 80dB into 85dB В 05/11/02 陶红仲 郭 敏 cancle the printing С 08/03/20 魏奉玲 张秀琴 l≤10mA l≤15mA 2013/2/19 常琦 D Е add soldering condition 2014/05/05 常 琦 徐金国 Е add soldering condition Date: 2014/05/05 常 琦 2014/05/05 BMT1201H8.5F-02 LF Drawn by: D 2013/2/19 cancel the printing Checked by: 魏奉玲 С 08/03/20 徐 波 Transducer REV. Approved by: 徐金国 Note BESTAR HOLDING CO.,LTD DRG NO: BS/TET01.004E Page:7 of 7 www.bestargroups.com wu@be-star.com

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