# SPECIFICATION For Electro-Magnet Transducer

Customer	
Customer P/N	
Bestar Model Name	SMT1212-05XH10LF
Product No.	050900
Issue No.	BS/TET01.047B
Issue Date	07/11/16

# Approval:

- 1.Characteristics
- 2.Dimension
- 3. Environmental Test
- 4. Surface Mounting Condition
- 5.Packing
- 6.Notice
- 7. 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

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#### 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 or magazing supply
- 5. Minimum quantity (one reel): 280 pcs.



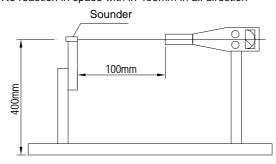


No	Туре	Specifications				
1	Rated Voltage (V)	5				
2	Operating Voltage ( V)	4-7				
3	a)Rated Current (mA)	max.30 min.85 2300± 300				
4	a)Sound Output at 10cm(dB)					
5	a)Resonant Frequency( Hz)					
6	Operating Temperature(° C)	-20~+70				
7	Storage Temperature(° C)	-30~+80				
8	Weight (g)	2				
	a)Value applying rated voltage(DC)  Sound Output after reliability test more than 80 dB					

#### 1.3 Test method:

#### Standard text Fixture

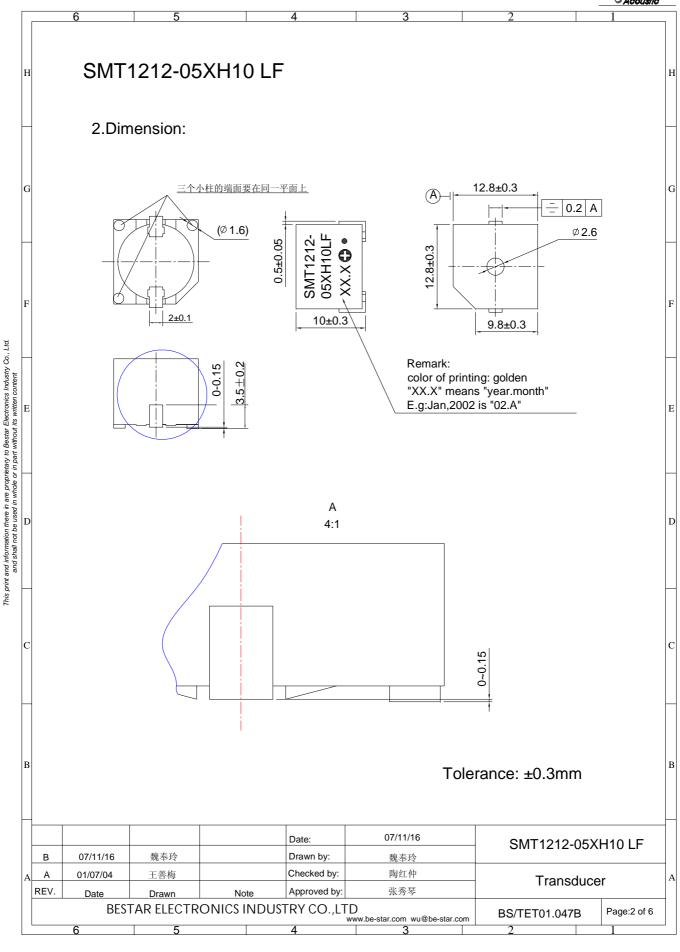
No reaction in space with in 400mm in all direction



H	1								_		
					Date:	07/11/16	SMT1212-0	SMT1212-05XH10 LF			
	В	07/11/16	魏奉玲		Drawn by:	魏奉玲	011111212				
A	A	01/07/04	王善梅		Checked by:	陶红仲	Tranco	Transducer			
	REV.	Date	Drawn	No	Approved by:	张秀琴					
		BES	TAR ELECTR	BS/TET01.047E	Page:1 of 6						
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SMT1212-05XH10 LF Н 3. Environmental Test 3.1 High temperature storage test +80 ℃ Temperature Duration 96hrs 3.2 Low temperature storage test -30 ℃ **Temperature** Duration 96hrs 3.3 Life test in normal temperature Power supply Rated voltage 1000hrs Duration 3.4 Life test in high temperature Temperature +70 ℃ Power supply 7V Duration 500hrs 3.5 Life test in low temperature -30 ℃ Temperature 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 Power supply 4V Duration 500hrs 3.6 Temperature cycle test Cycles 5 +80°C +20° C +20° C -30°C 30min 15min 30min 15min 3.7 Humidity cycle test Cycles 5 66° C90-95% RH 25° C90-95% RH 10h 1h 12h 1h All these tests above should be measured after leaving normal temperature for 2hrs. 3.8 Vibration Test 10~55Hz Vibration Frequency **Amplitude** 1.53mm 3(x.y&z) Direction Duration 2hrs each direction (total 6 hrs) 3.9 Drop test Height 70cm (to 10mm thickness woodenboard) Direction 3(x.y&z)3.10 Solderability Test 255 ° C Soldering Temperature В В Duration 3 sec Notice: All specifications must be satisfied in this condition. 07/11/16 Date: SMT1212-05XH10 LF 07/11/16 В 魏奉玲 Drawn by: 魏奉玲 Checked by: 陶红仲 01/07/04 王善梅 Α Transducer 张秀琴 REV. Approved by: Drawn Note BESTAR ELECTRONICS INDUSTRY CO.,LTD Page:3 of 7 BS/TET01.047B ww.be-star.com wu@be-star.com

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### SMT1212-05XH10 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 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

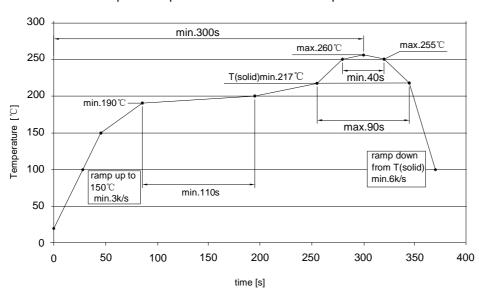
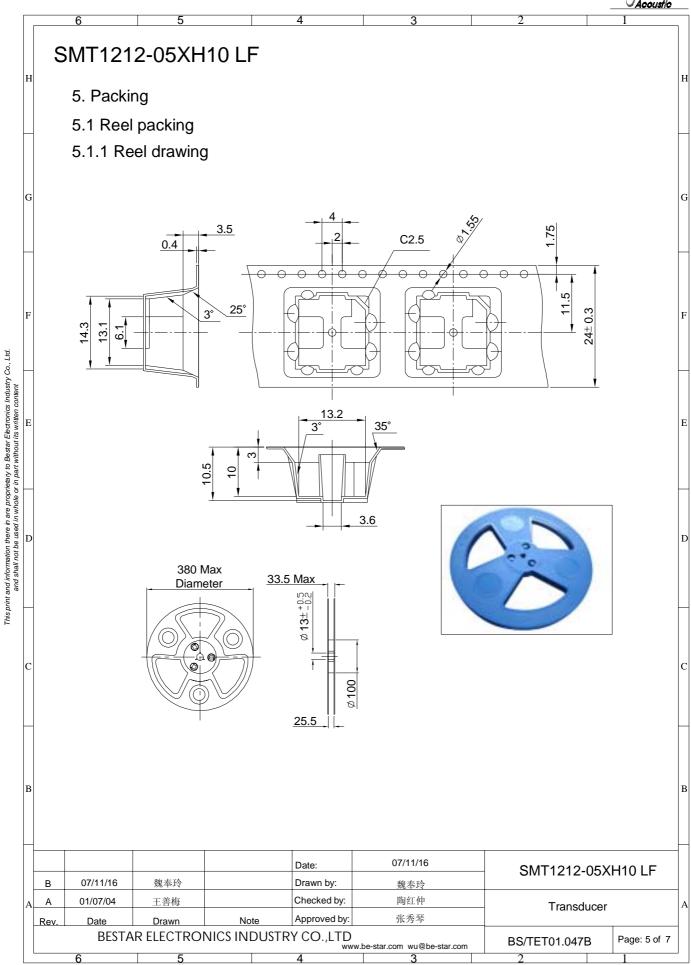


Fig. 1 Recommended soldering Temperature-Time profile (Reflow soldering)

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					Date:	07/11/16	SMT1212-	SMT1212-05XH10 LF Transducer		
	В	07/11/16	魏奉玲		Drawn by:	魏奉玲				
A	Α	01/07/04	王善梅		Checked by:	陶红仲	Transc			
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