

## SPECIFICATION FOR DYNAMIC SPEAKER

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# Preliminary Specification For The Acoustic Characteristics of Dynamic Speaker

Customer		Model Name	SMS2020-08H4.5 LF
Customer P/N		Product No.	138707
Date	20Nov. 2012	Issue No.	BS/TES01.990B
Page	01 of 09	Issue Date	2012/11/20

### Approval:

- 1.Description
- 2. Characteristics
- 3.Drawing
- 4. Reliability Test
- 5.Reflow Condition
- 6.MSL rating and notice
- 7. Tape on Reel Packing
- 8. History Change Record

Drawn by Checked by		Approved by	Customer approved		

#### BESTAR ACOUSTICS CO.,LTD

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

文件号: BS/QDTE045B

#### SMS2020-08H4.5 LF

#### 1.Description

- 1.1 Upper sound port
- 1.2 Reflowable(Conforms to EIAJ ED-4702)
- 1.3 Flat frequency response with a greater sound volume
- 1.4 Excellent durability in severe environment(storage temperature: -40°C to +105°C)

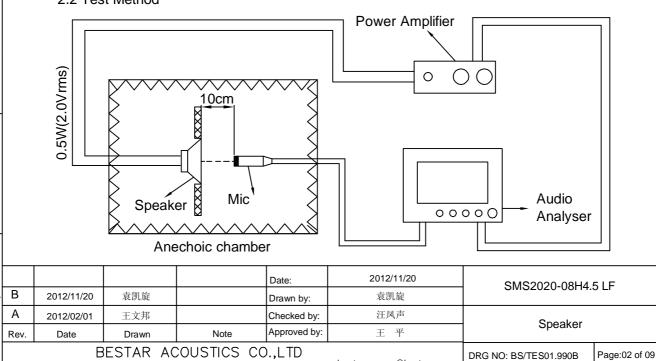
DRG NO: BS/TES01.990B

#### 2. Characteristics

2.1 Electrical and Mechanical Characteristics

No.	Item	Specification		
1.	Dimension	20 x 20 x 4.5 (square)		
2.	AC Impedance	8 Ω±20%( at 2KHz,0.5V)		
3.	Rated Input Power	0. 5W(2.0Vrms)		
4.	Max Input Power	1.0W(2.83Vrms)		
5.	Resonance Frequency	850 ±100Hz		
6.	S.P.L	93±3dB/0.5W/0.1m at 0.8 ~3.0KHz average		
7.	THD	800Hz≤10%,800-1.5KHz slope from 10%,		
		1.5K-8KHz≤10%		
8.	Buzzes & Rattles	Must be normal at sine wave 2. 0Vrms		
9.	Polarity	Positive voltage to (+),Diaphragm moves forward		
10.	Operating Temperature	-40~+ 85°C		
11.	Storage Temperature	-40~+ 105°C		
12.	Weight	~3 .0g		

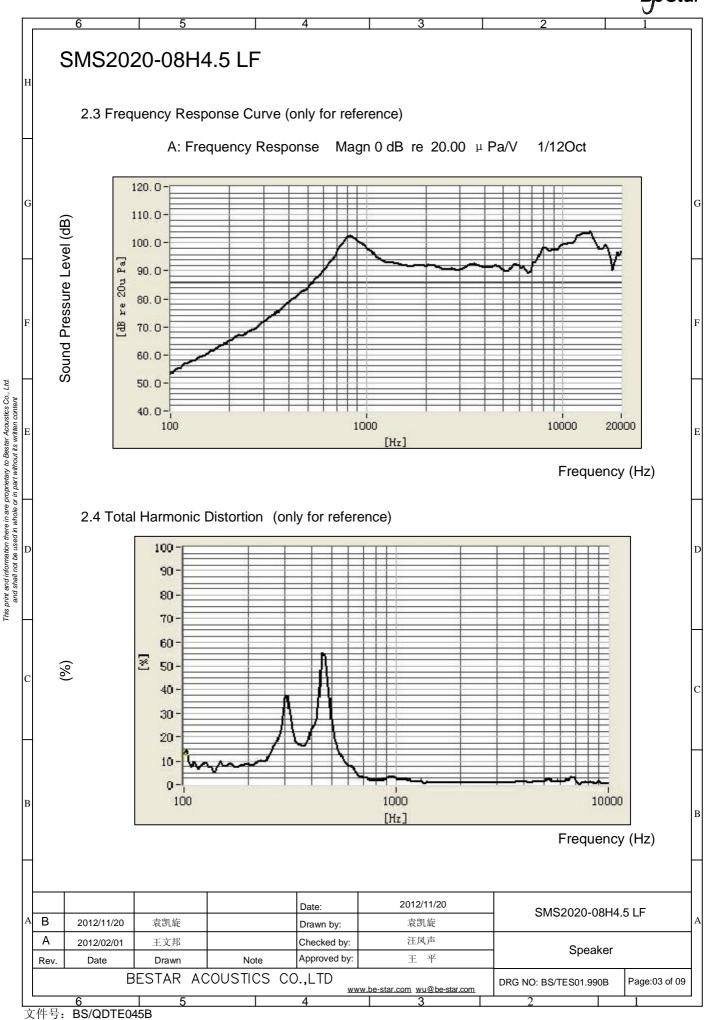
#### 2.2 Test Method



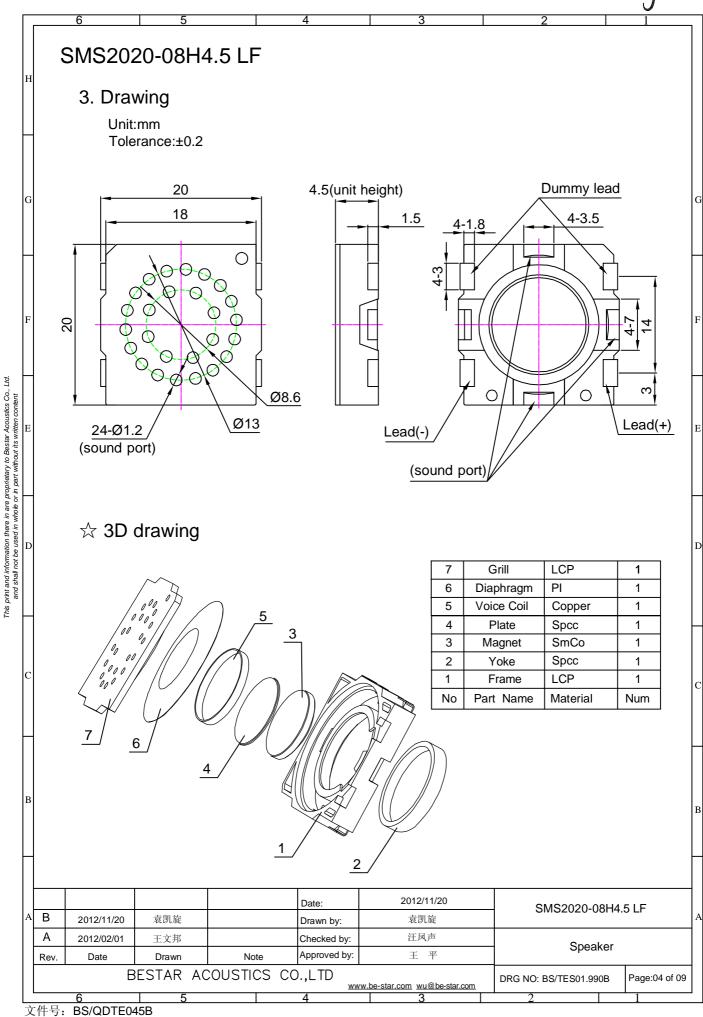
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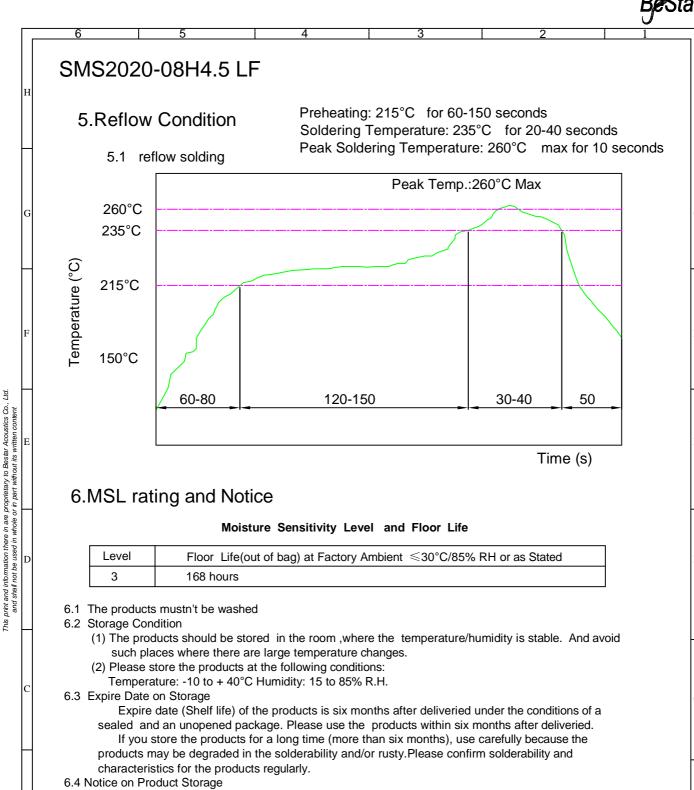




SMS2020-08H4.5 LF 4. Reliability Test 4.1 Load Test Power (Nom) 0 .5W(sine wave) 120hrs Duration 4.2 High Temperature Test Temperature +105±3°C Duration 120hrs 4.3 Low Temperature Test Temperature -40±3°C **Duration** 120hrs 4.4 Temperature Cycle Test Temperature -40°C/+85°C Temperature Change 1±2/min Duration at +85°C 2h(each cycle) This print and information there in are proprietary to Bestar Acoustics Co., Ltd. and shall not be used in whole or in part without its written content Duration at -40°C 2h(each cycle) Duration for one cycle 8h 10 Cycle 4.5 Drop Test Height 1.0m Drop face Free drop on concrete floor **Times** 3 (X,Y,Z direction 1 time each, total 3 times) Notice: 1.All these tests above should be measured after leaving normal temperature for 2hrs. 2. After the test the part shall meet specifications without any degradation in appearance and performance except SPL.SPL difference at 0.8- 3.0kHz shall be within ± 3dB from initial value after test. Date: 2012/11/20 SMS2020-08H4.5 LF В 2012/11/20 袁凯旋 袁凯旋 Drawn by: 汪凤声 Α 2012/02/01 王文邦 Checked by: Speaker Approved by: 王 平 Rev. Drawn Note BESTAR ACOUSTICS CO.,LTD Page:05 of 09 DRG NO: BS/TES01.990B www.be-star.com wu@be-star.com

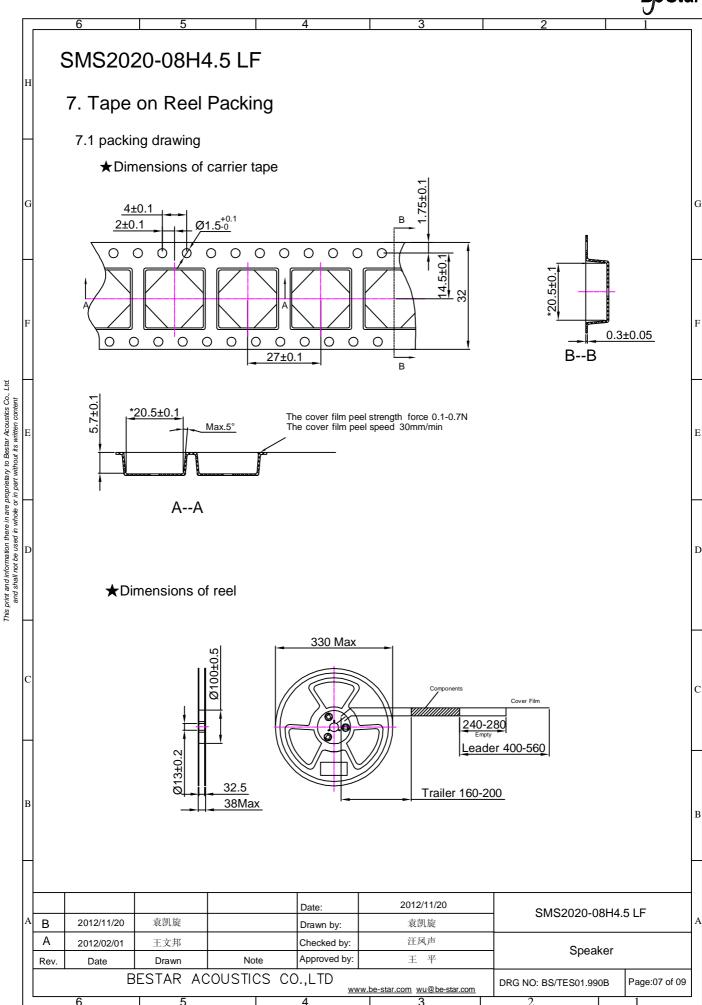
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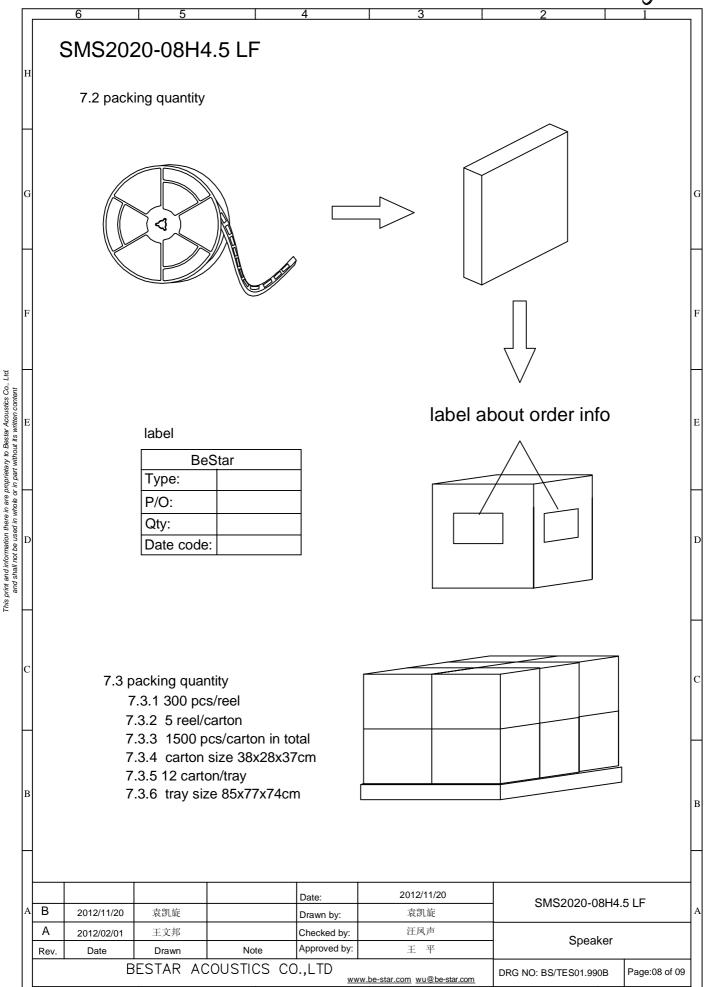


- (1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organicgas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.
- (2) Please use the products immediately 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.
- (3) Please do not drop the products to avoid cracking of ceramic element.

					Date:	2012/11/20	SMS2020-08H4.5 LF		
A	В	2012/11/20	袁凯旋		Drawn by:	袁凯旋			
	Α	2012/02/01	王文邦		Checked by:	汪凤声	Chacker		
	Rev.	Date	Drawn	Note	Approved by:	王 平	Speaker		
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SMS2020-08H4.5 LF 8. History Change Record Change Items version Date Approved Drawn No. Before After 2012/02/01 王文邦 郭 敏 Α 850Hz ±20%;8Ω±20% 850±100Hz ;8Ω±20% (at В 王 平 2012/11/20 袁凯旋 (at 2KHz) 2KHz,0.5V);Drawing This print and information there in are proprietary to Bestar Acoustics Co., Ltd. and shall not be used in whole or in part without its written content 2012/11/20 Date: SMS2020-08H4.5 LF В 2012/11/20 袁凯旋 袁凯旋 Drawn by: Α 汪凤声 2012/02/01 王文邦 Checked by: Speaker Approved by: 王 Note Date Drawn BESTAR ACOUSTICS CO.,LTD Page:09 of 09 DRG NO: BS/TES01.990B www.be-star.com wu@be-star.com 文件号: BS/QDTE045B