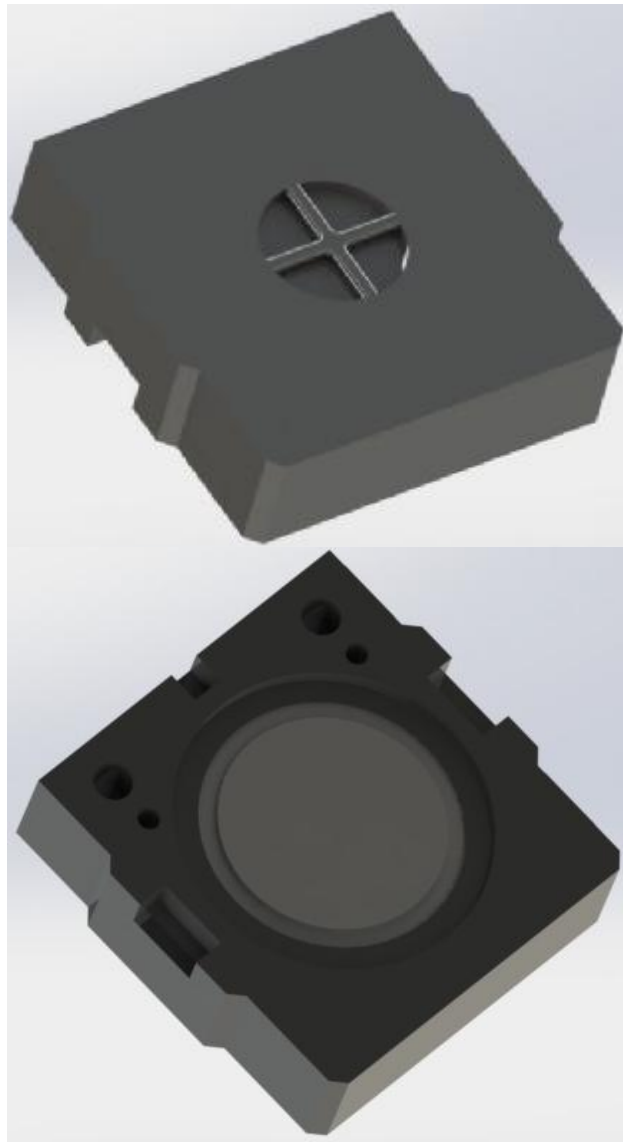


SPECIFICATION

SMS1515-08H04 LF





SPECIFICATION FOR DYNAMIC SPEAKER

TOTAL PAGE 08

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RoHS

Customer		Model Name	SMS1515-08H04 LF
Customer P/N		Product No.	138700
Date	28 Sep.2018	Issue No.	BS/TES01.529D1
Page	01 of 09	Issue Date	2018.09.28

Approval:

- 1.Characteristics
- 2.Drawing
- 3.Reliability Test
- 4.Reflow condition
- 5.Tape on Reel Packing
- 6.MSL rating and Notice
- 7.History change record

Drawn by	Checked by	Approved by	Customer approved
杨利平	徐 波	赵 峥	

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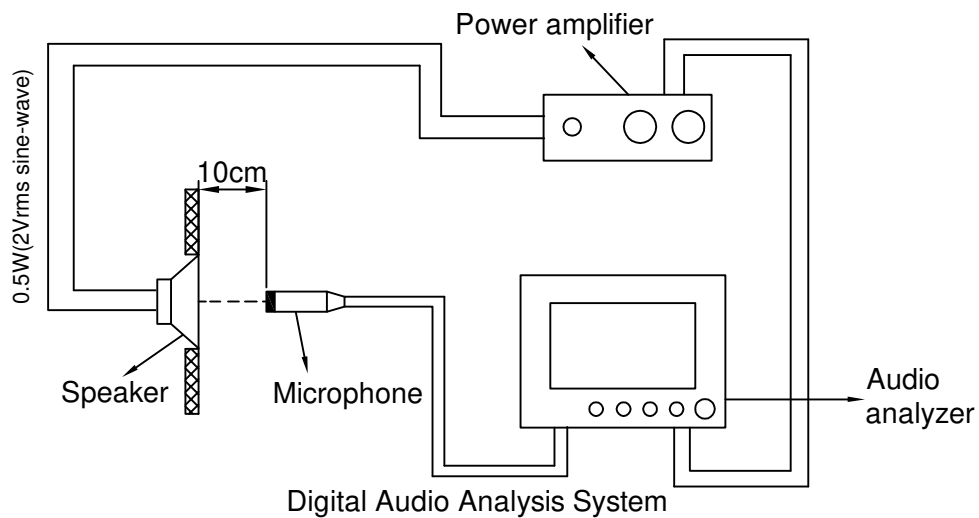
SMS1515-08H04 LF

1. Characteristics

1.1 Electrical and Mechanical Characteristics

No.	Item	Specifications
1.	Dimensions	Please refer to profile drawing
2.	AC Impedance	8 ohm±20% at 0.5Vrms/2KHz
3.	Resonance Frequency	800±15%Hz/0.5Vrms
4.	Rated Power	0.5W(2Vrms)
5.	Maximum Power	0.8W(2.53Vrms)
6.	Sound Pressure Level	87±3dB/0.5W/10cm
		at 1k,1.6k,2k,3.2kHz average
7.	Sound pressure level after reflow soldering	≥87,84,70,70,74dB/0.5W/10cm (at 6.3kHz,6.0kHz,5.0kHz,4.5kHz,4.0kHz)
8.	Buzzes&Rattles	Must be normal at sine wave 2Vrms
9.	Total Hamonics Distortion	Max.5%(0.5W/2.2KHz)
10.	Frequency Response	Refer to the attached figure
11.	Operating Temperature	-40~+85°C
12.	Storage Temperature	-40~+105°C
13.	Weight	~1.5g

1.2 Test Method

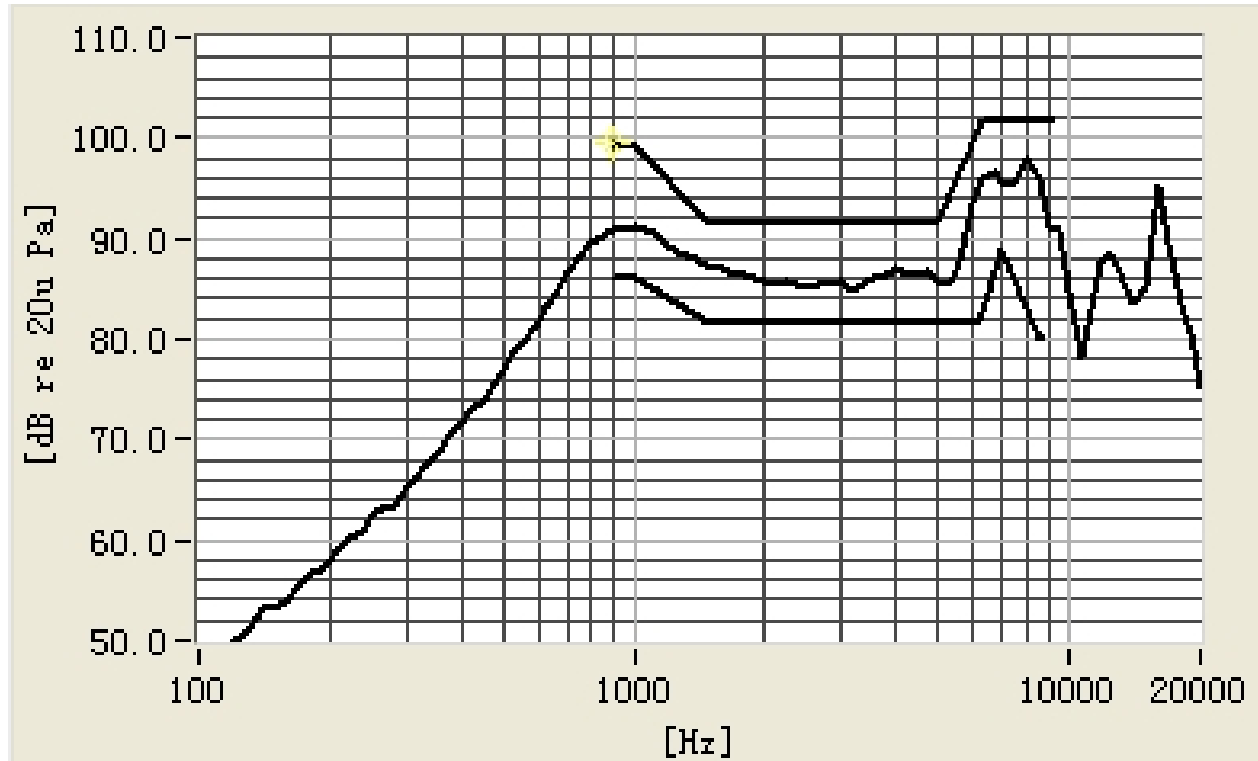


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	D	2018/09/12	徐亮	Checked by:	徐波	Speaker	
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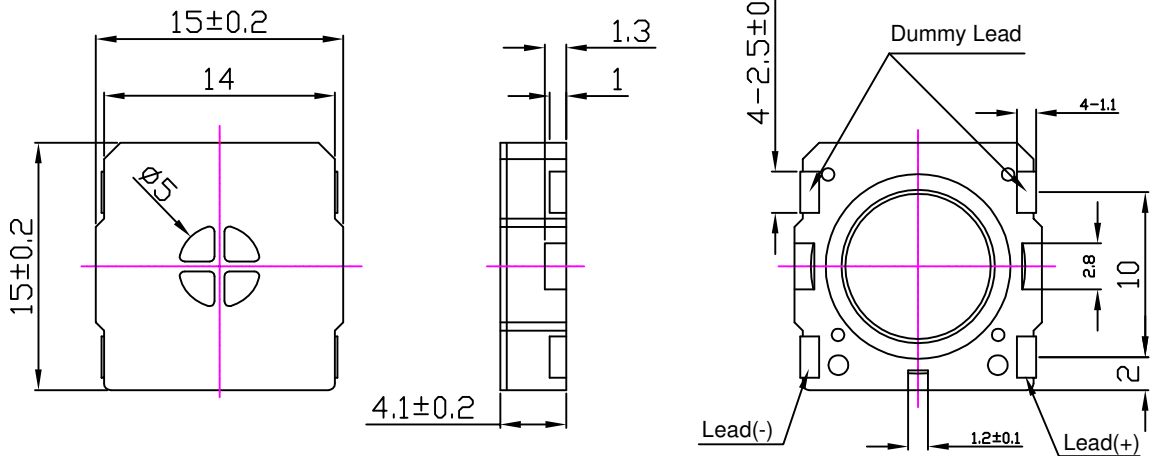
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SMS1515-08H04 LF

1.3 Frequency response



2. Drawing



Unit:mm
tolerance:±0.2

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3. Reliability test

3.1	Low Temperature Test		
	Temperature	-40°C	
	Duration	240hrs	
3.2	High Temperature Test		
	Temperature	+105±2°C	
	Duration	240hrs	
3.3	Damp Heat		
	Temperature	40±2°C	
	Relative Humidity	90%-95%RH	
	Duration	240hrs	
3.4	Room temperature life test		
	Temperature	15~35°C	
	Relative Humidity	25%-85%RH	
	Voltage	2Vrms	
	Duration	240hrs	
3.5	Temperature Cycle		
	Temperature	-25°C / +65°C	
	Temperature Change	1± 2 /min	
	Duration at +65°C	2h(each cycle)	
	Duration at -25°C	2h(each cycle)	
	Duration for one cycle	8h	
	Cycles	10	

All these tests above should be measured after leaving normal temperature for 2hrs.

3.6	Drop Test		
	Height	1 m(on the concrete floor)	
	Direction of drop	1 each corner,3 each sides, 6 plain	

Notice:
sensitivity difference at 1kHz shall be within ± 3dB from initial value after test.

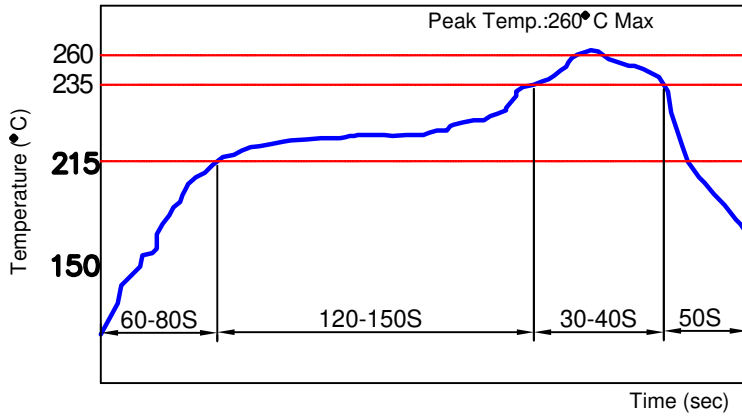
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SMS1515-08H04 LF

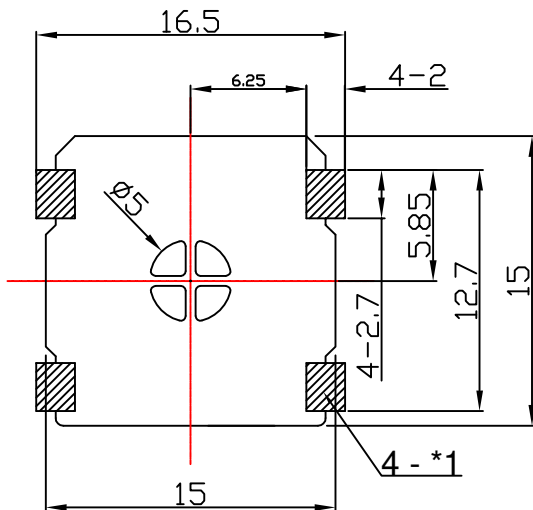
4. Reflow condition

4.1 reflow soldering



Preheating: 215°C for 120-150 seconds
 Soldering Temperature: 235°C for 30-40 seconds
 Peak Soldering Temperature: 260°C max for 10 seconds

4.2 Recommended Land Pattern Dimensions



Unit:mm

Note

- 1) Land pattern*1
- 2) Avoid any pattern on the shade area
- *2 of PC board is highly recommended

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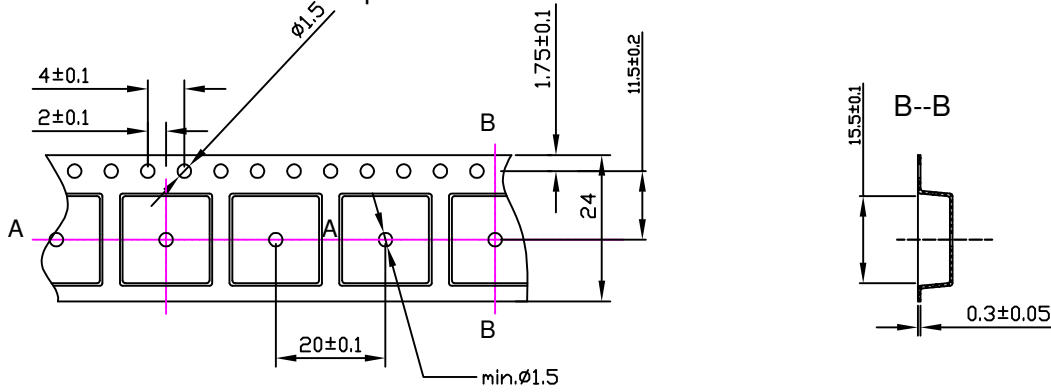
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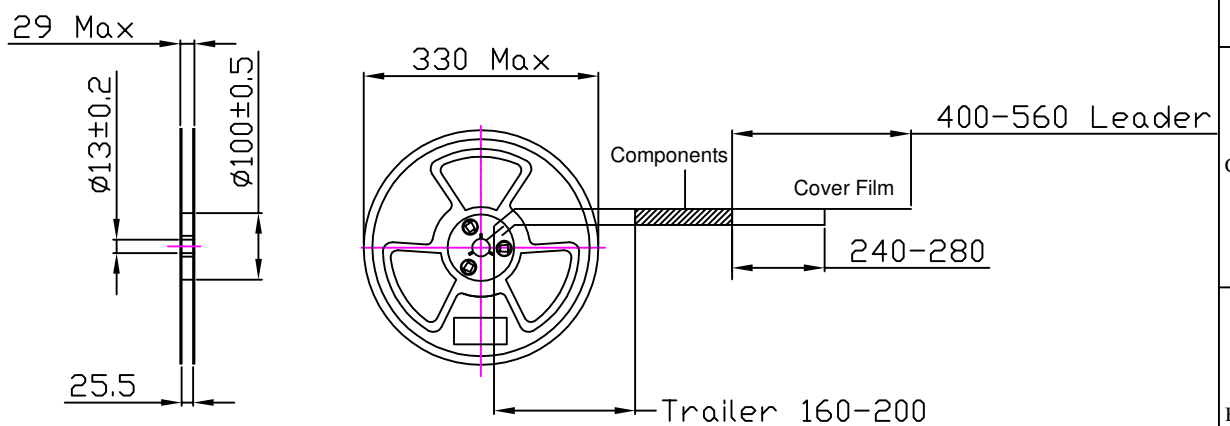
5. Tape on Reel Packing

5.1 packing drawing

★Dimensions of carrier tape



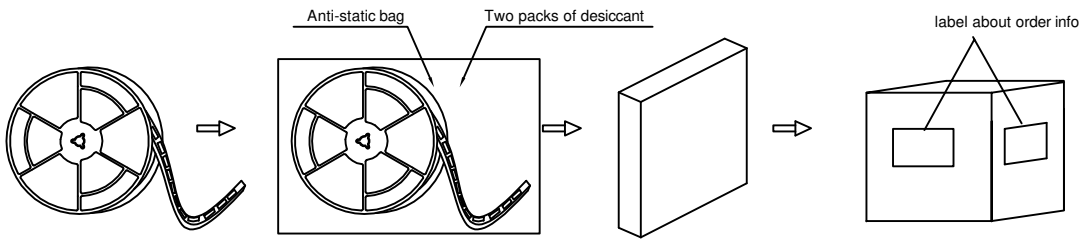
★Dimensions of reel



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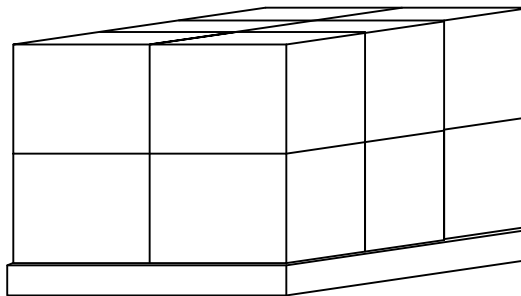


label

BeStar
Type:
P/O:
Gty:
Date code:

5.2 packing quantity

- 5.21 600pcs/reel
- 5.22 5reel/carton
- 5.23 3000 pcs/carton in total
- 5.24 carton size 38x28x37cm
- 5.25 12carton/tray
- 5.26 tray size 85x77x74cm



6.MSL rating and Notice

Moisture Sensitivity Level and Floor Life

Level	Floor Life(out of bag) at Factory Ambient $\leq 30^{\circ}\text{C}/85\% \text{RH}$ or as Stated
3	168 hours

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 $+ 40^{\circ}\text{C}$ Humidity: 15 to 85% R.H.

6.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivered under the conditions of a sealed and an unopened package. Please use the products within six months after delivered.

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.

(3) Please do not drop the products to avoid cracking of ceramic element.

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