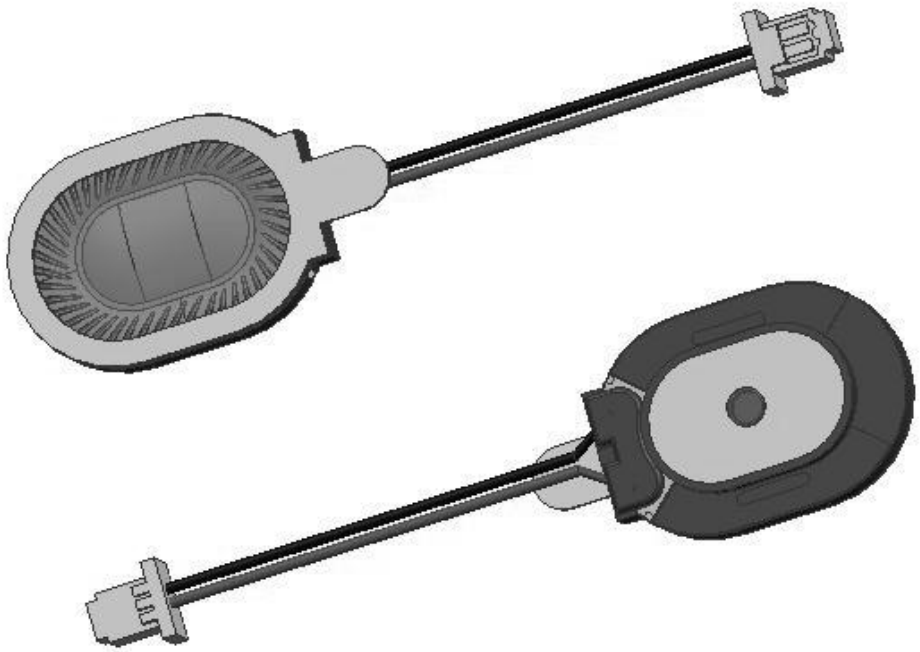
# SPECIFICATION

## BMS2014P-11C-08H3.2RW070 LF



文件号：BS/QDTE045B

| BeStar | APPROVAL SHEET<br>FOR SMARTPHONE SPEAKER | | | |
|---|---|---|---|---|
| | TOTAL PAGE | 13 | www.bestargroups.com | RoHS |

| | | | |
|---|---|---|---|
| Customer | | Model Name | BMS2014P-11C-08H3.2RW070 LF |
| Customer P/N | | Product No. | ****** |
| Date | 03 Agu. 2015 | Issue No. | BS/TES01.****A |
| Page | 02 of 13 | Issue Date | 2015/08/03 |

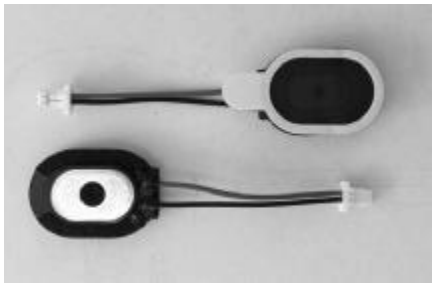
## Table of Contents:


1.Test Climatic Condition
2.Description
3.Characteristics
4.Test Setup
5.Drawing
6.Reliability Test
7.Packing
8.History Change Record


| Drawn by | Checked by | Approved by | Customer approved |
|---|---|---|---|
| | | | |


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***E-mail:***wu@be-star.com ***http://www.bestargroups.com***

# BMS2014P-11C-08H3.2RW070 LF



## 1.Test Climatic Condition

1.1 Ambient Temperature :15°C~35°C,Preferably at 20°C
1.2 Relative Humidity:25% to 75%
1.3 Air Pressure:86kPa~106kPa

| No. | Item | Specification |
|---|---|---|
| 1. | Dimension | 20x14 x3.2(mm) |
| 2. | AC Impedance | 8Ω±15%(at 2KHz/1Vrms) |
| 3. | Rated Power | 0.7W(2.37Vrms) |
| 4. | Maximum Power | 1.0W(2.83Vrms) |
| 5. | Resonance Frequency | 800Hz ± 20% at 1V |
| 6. | Frequency Response | Fo~20KHz |
| 7. | S.P.L | 87±3dB at 0.8K、1K、1.2K、1.5KHz |
| | | average(0.1m/0.1W) |
| 8. | THD | ≤10% at 1KHz(0.1m/0.7W) |
| | | ≤5% at 1KHz(0.1m/0.1W) |
| 9. | Buzzes & Rattles | Must be normal at sine wave 2.37Vrms(in free air) |
| | | from200~3400Hz |
| 10. | Polarity | Positive voltage to (+),Diaphragm moves forward |
| 11. | Operating Temperature | -20~+ 70°C |
| 12. | Storage Temperature | -20~+ 70°C |
| 13. | Weight | ~1.7g±0.3g |

## 2.Description

2.1 Acoustic component Performance Specification
2.2 The present document specifies performance requirements for the acoustic characteristics of speaker

## 3.Characteristics

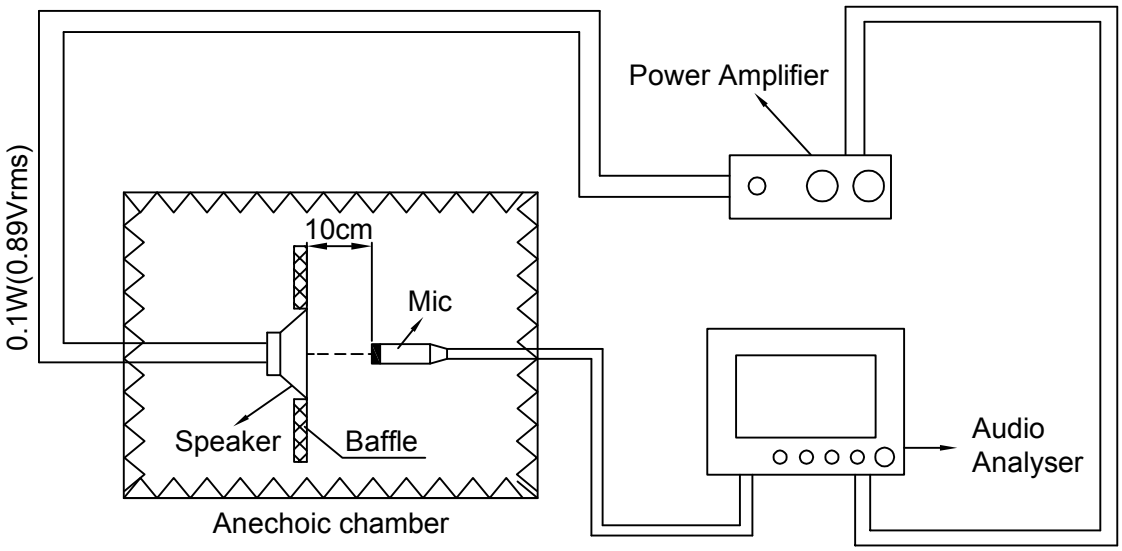
3.1 Electrical and Mechanical Characteristics

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| | | | | | | |
|---|---|---|---|---|---|---|
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| Rev. | Date | Drawn | Note | Approved by: | 汪珍珍 | |
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# 4. Test Setup

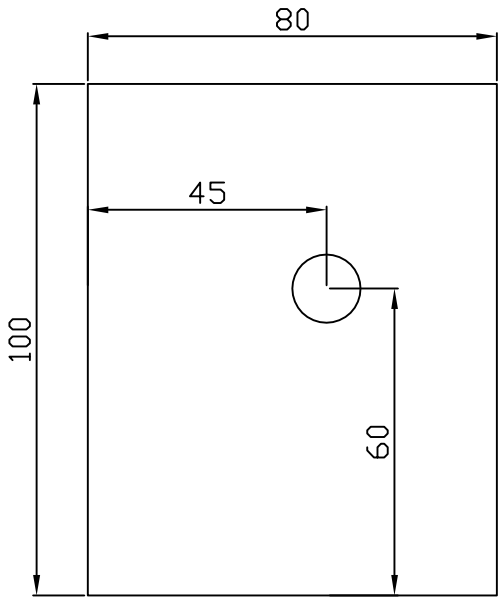
## 4.1 Speaker Measurement Circuit




## 4.2 Baffle Drawing

unit:cm

tolerance:±2




## 4.3 Test Method

The speaker shall be mounted in a baffle of the dimensions 80X100cm show figure 4.2,

The measuring free-field microphone shall be placed 10cm from DUT,on axis.

The test voltage is 0.1W and swept sine-wave range is 100Hz~20KHz with a R80 of test sequence

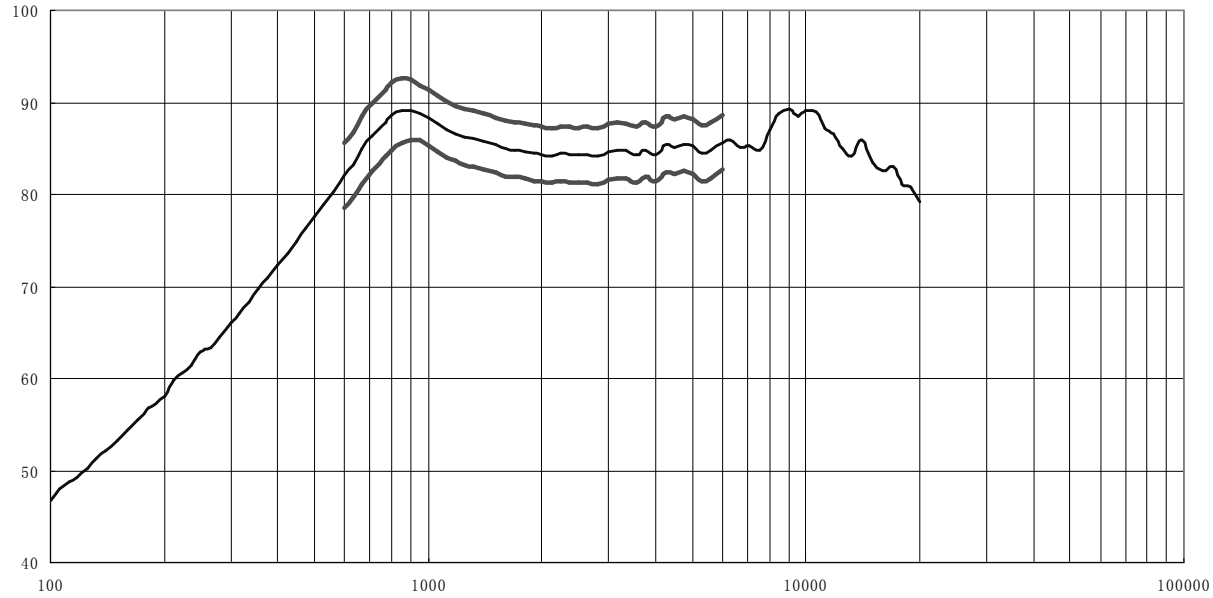
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# BMS2014P-11C-08H3.2RW070 LF

4.4 Frequency Response Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct




4.4.1 Sensitivity

SPL is expressed in dB rel 20μPa,computed according to IEC 268-5.

Measurement set up according chapter 4.1 and parameters according chapter 4.4.

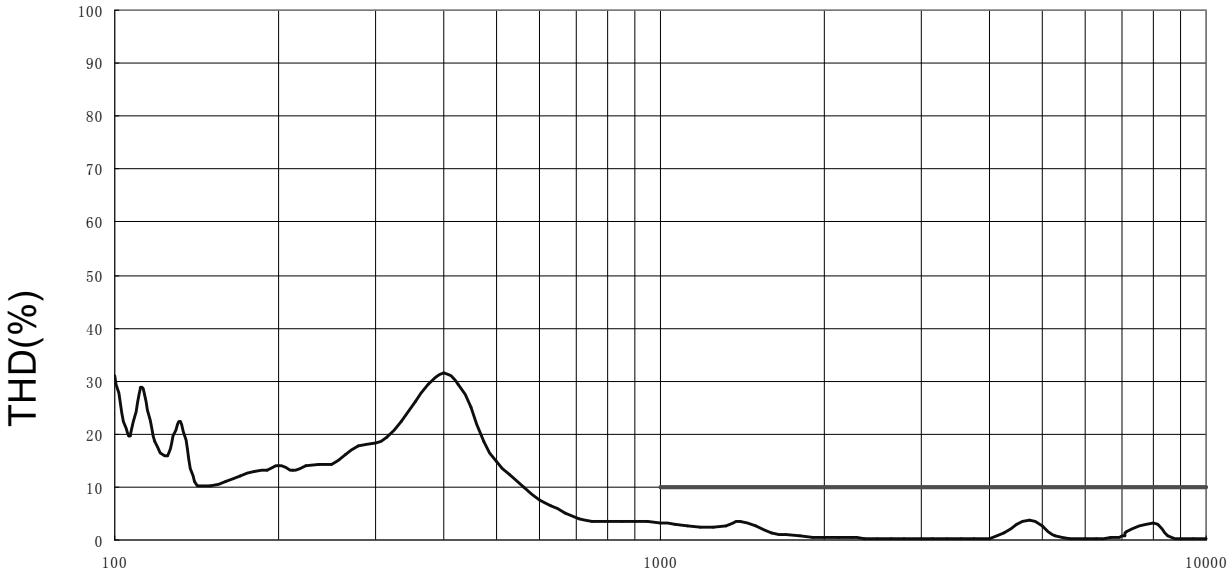
This test is performed for 100% of products in the production line.

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4.5 Total Harmonic Distortion (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct




4.5.1 THD

THD is measured according test set up in chapter 4.1 and parameters according chapter 4.5

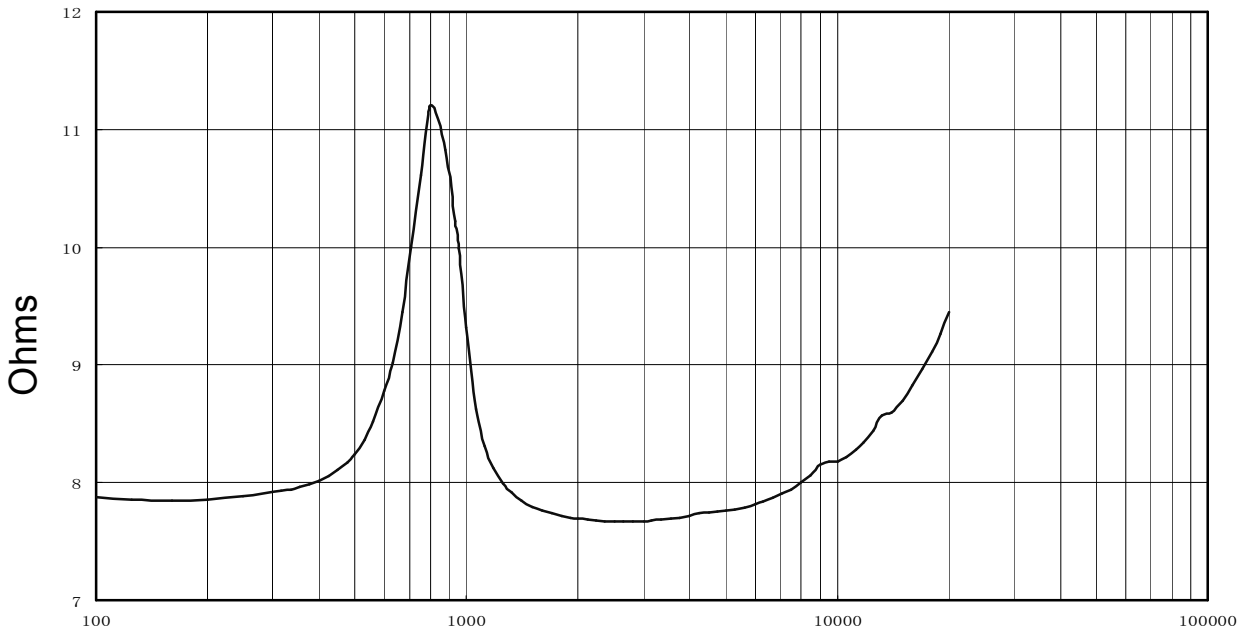
This test is performed for 100% of products in production line

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4.6 F0 Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct




4.6.1 Resonance Frequency

Resonance frequency is measured according test set up in chapter 4.1 and parameters according chapter 4.6

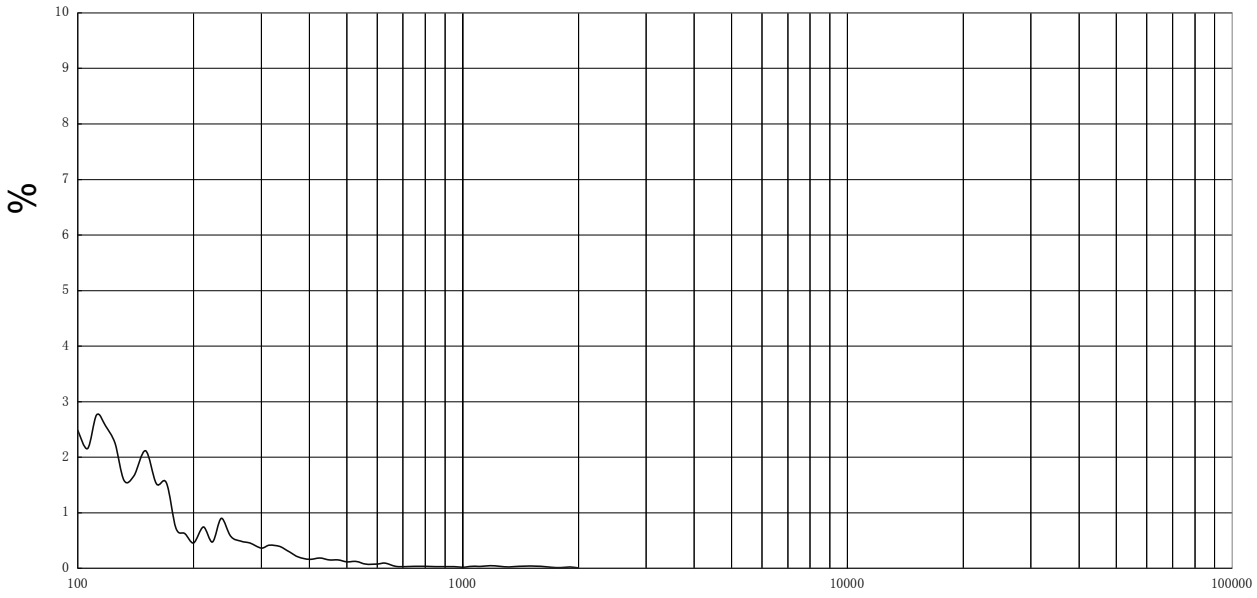
This test is performed for 100% of products in the production line

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4.7 R&B Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct




4.7.1 R&B

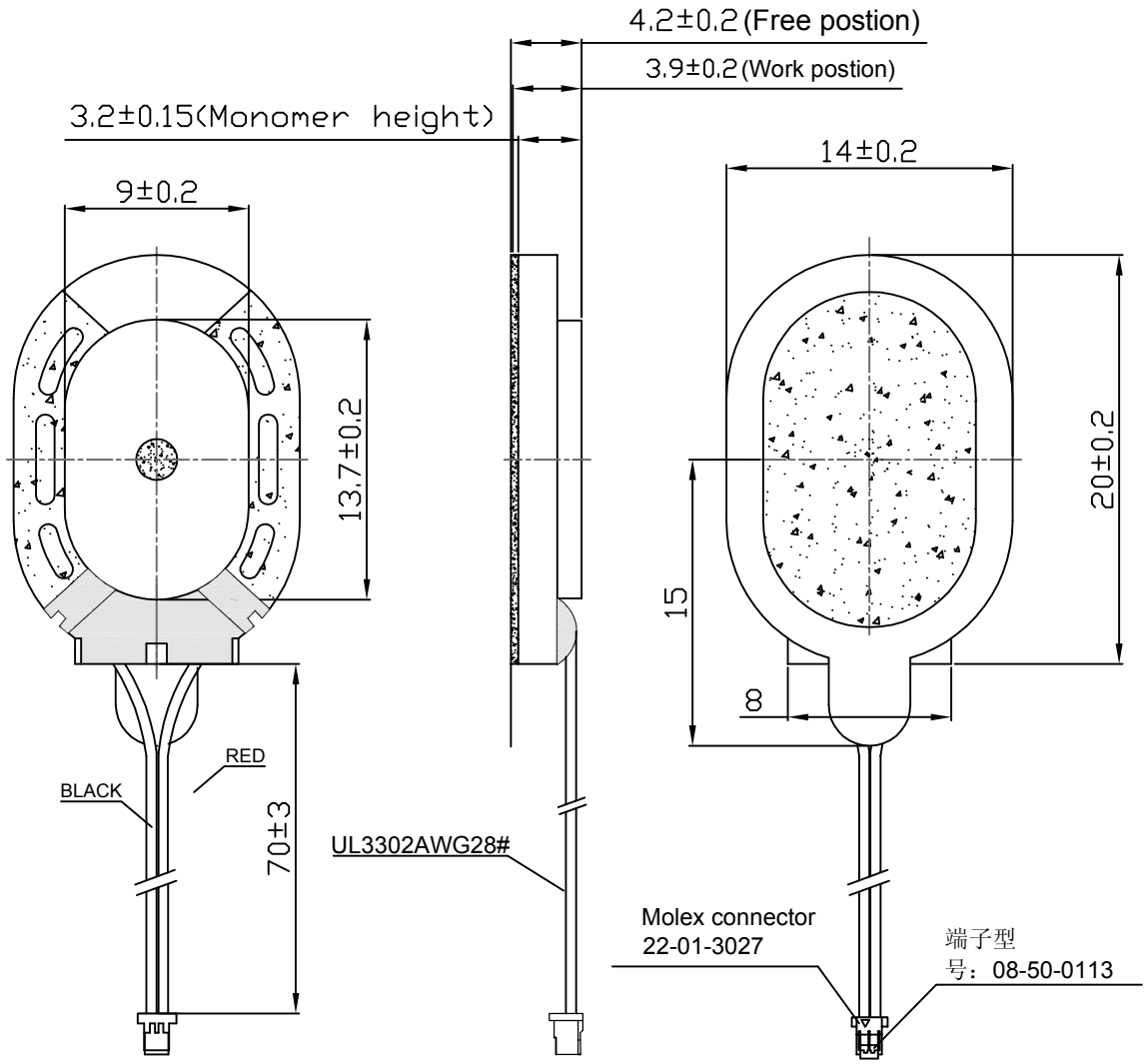
R&B is measured according test set up in chapter 4.1 and parameters according chapter 4.7

This test is performed for 100% of products in production line

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## 5. Drawing

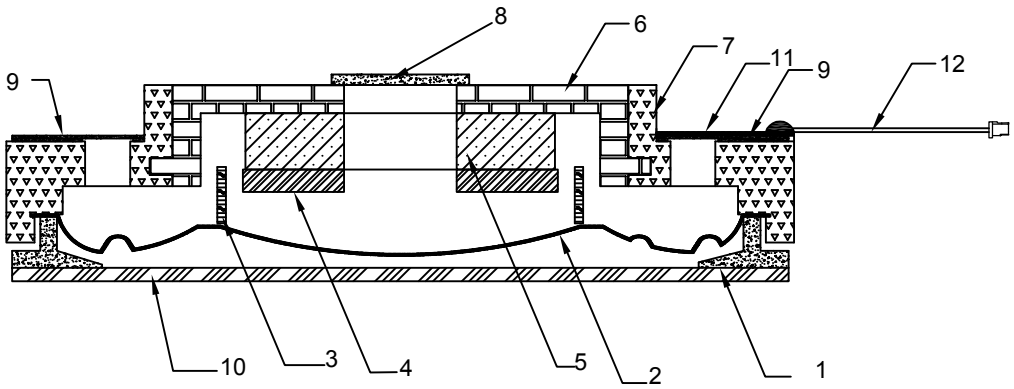



unit:mm
tolerance:±0.2

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Date: | 2015/08/03 | BMS2014P-11C-08H3.2RW070 LF |
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# BMS2014P-11C-08H3.2RW070 LF




| No | Description of the part | Material |
|---|---|---|
| 1 | Front Cover | LCP |
| 2 | Diaphragm | PEN |
| 3 | Coil | 0.055 |
| 4 | Plate | SPCC |
| 5 | Magnet | Nd-Fe-B |
| 6 | Under Yoke | SPCC |
| 7 | Frame | PBT+30%GF |
| 8 | Net | PET |
| 9 | Net | nylon BLK |
| 10 | Net | nylon BLK |
| 11 | PCB | S1155 |
| 12 | Cable | UL3302 |

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## 6. Reliability Test

6.1 Load Test

| | |
|---|---|
| Power (Nom) | 0.7W(in Pink noise) |
| Duration | 96hrs |

6.2 High Temperature Test

| | |
|---|---|
| Temperature | +70±3°C |
| Duration | 96hrs |

6.3 Low Temperature Test

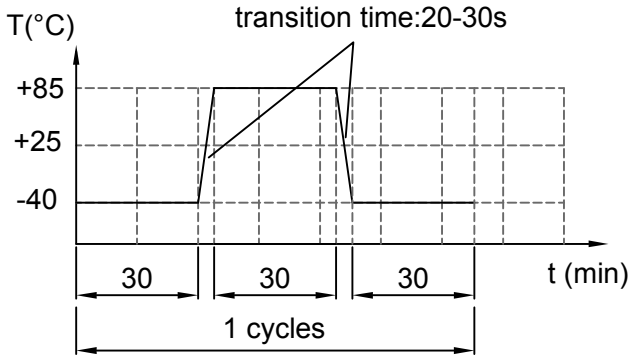
| | |
|---|---|
| Temperature | -20±3°C |
| Duration | 96hrs |

6.4 Damp Heat

| | |
|---|---|
| Temperature | 40±3°C |
| Relative Humidity | 90%-95%RH |
| Duration | 96hrs |

6.5 Temperature Cycle Test

| | |
|---|---|
| Cycles | 10 |




6.6 Drop Test

| | |
|---|---|
| Height | 1.0m |
| Drop face | thick board (20mm) |
| Times | 10 (three times in each durection ) |

Notice:

1.Immediately after reliability test,the samples shall be stored under climatic conditions such as normally exist in ordinary rooms or laboratories.Unless otherwise noted,the recovery period shall be 4hrs at least before performance testing.

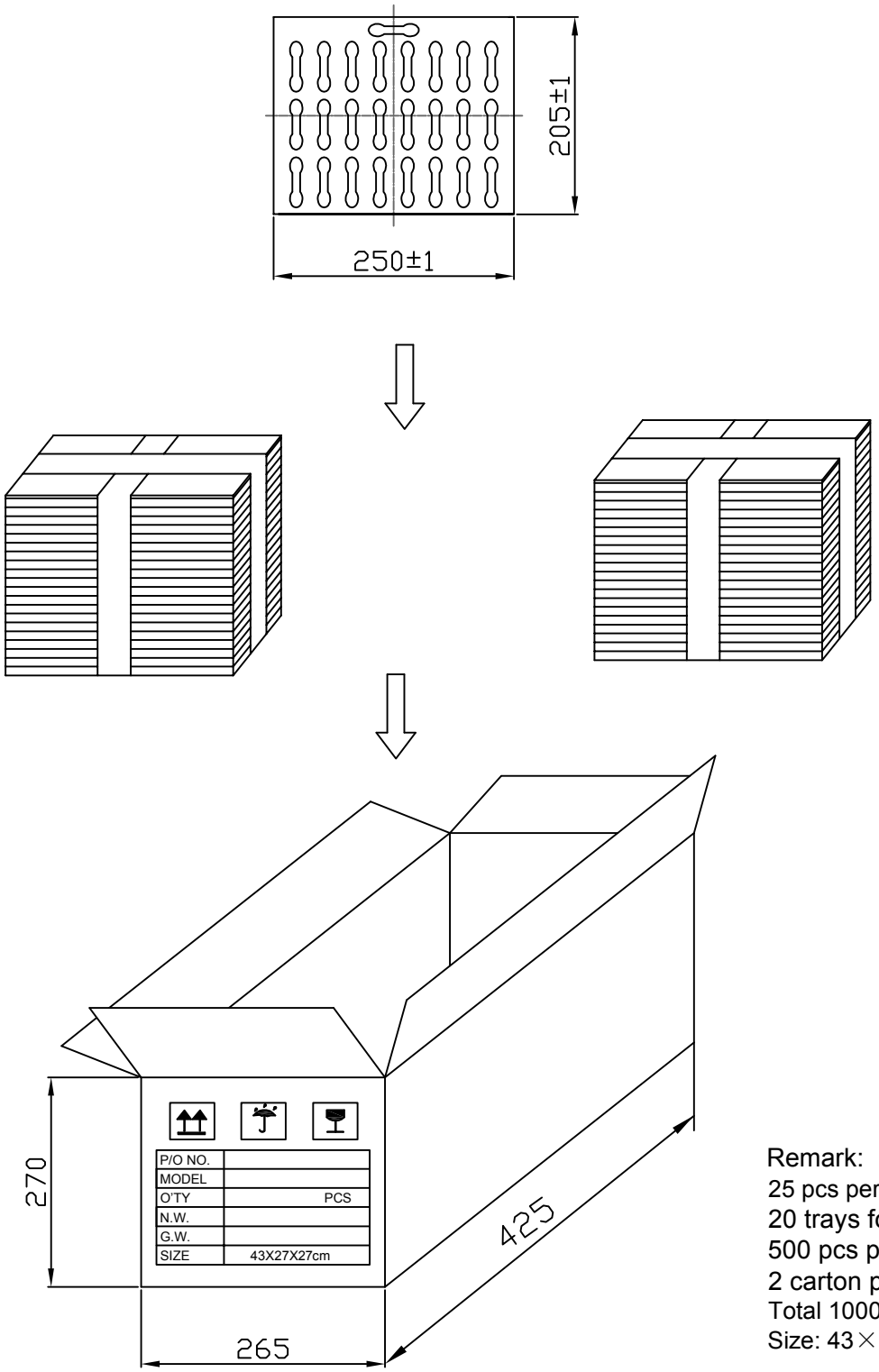
2. After reliability test ,all samples must be meet the requirements specified

3.Sensitivity difference at F0~5.0KHz shall be within ±3dB from initial value after test.

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## 7. Packing




Remark:
25 pcs per tray
20 trays for unit
500 pcs per carton
2 carton per box
Total 1000pcs per box
Size: 43×27×27(cm)

| | | | | | | |
|---|---|---|---|---|---|---|
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## 8. History Change Record

| version No. | Change Items | | Date | Drawn | Approved |
|---|---|---|---|---|---|
| | Before | After | | | |
| A | | | 2013/12/26 | 杨紫群 | 汪珍珍 |
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