



APPROVAL SHEET FOR SMARTPHONE SPEAKER

TOTAL PAGE

12

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RoHS

Customer		Model Name	BMS1511F-11C-08H3.5RP LF
Customer P/N		Product No.	139730
Date	09 Jun. 2010	Issue No.	BS/TES01.1117A
Page	01 of 12	Issue Date	2010/06/09

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- 7.History Change Record

Drawn by	Checked by	Approved by	Customer approved

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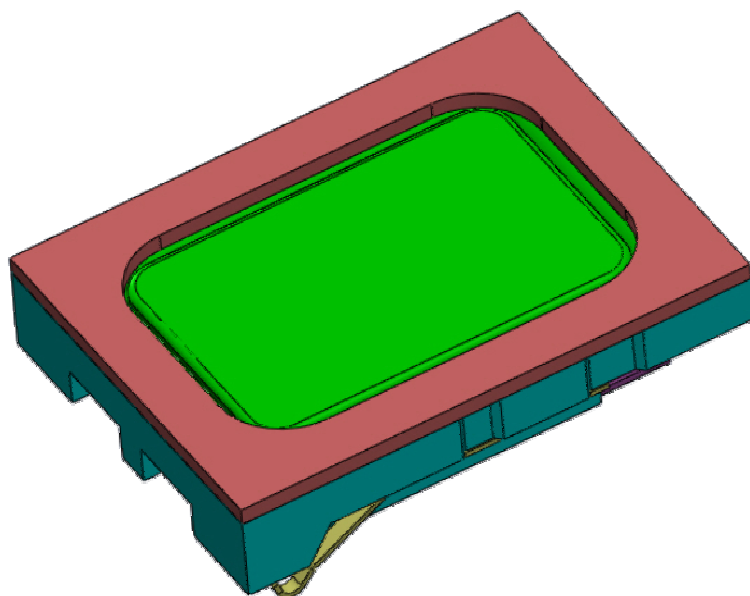
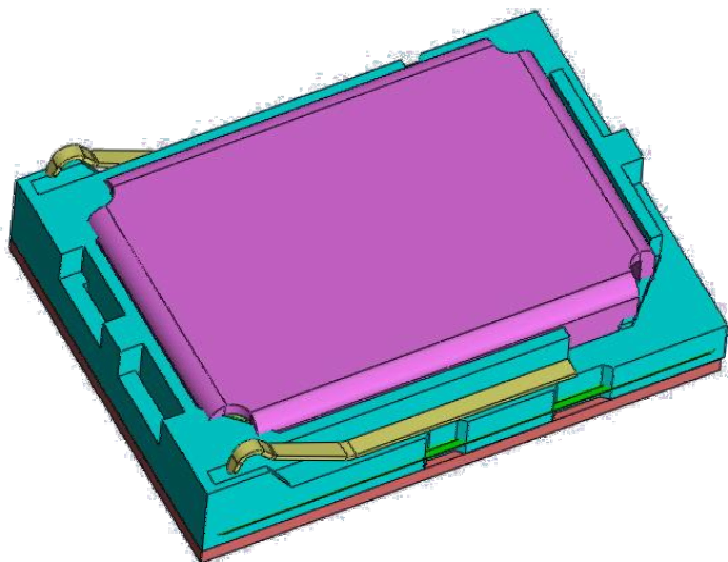
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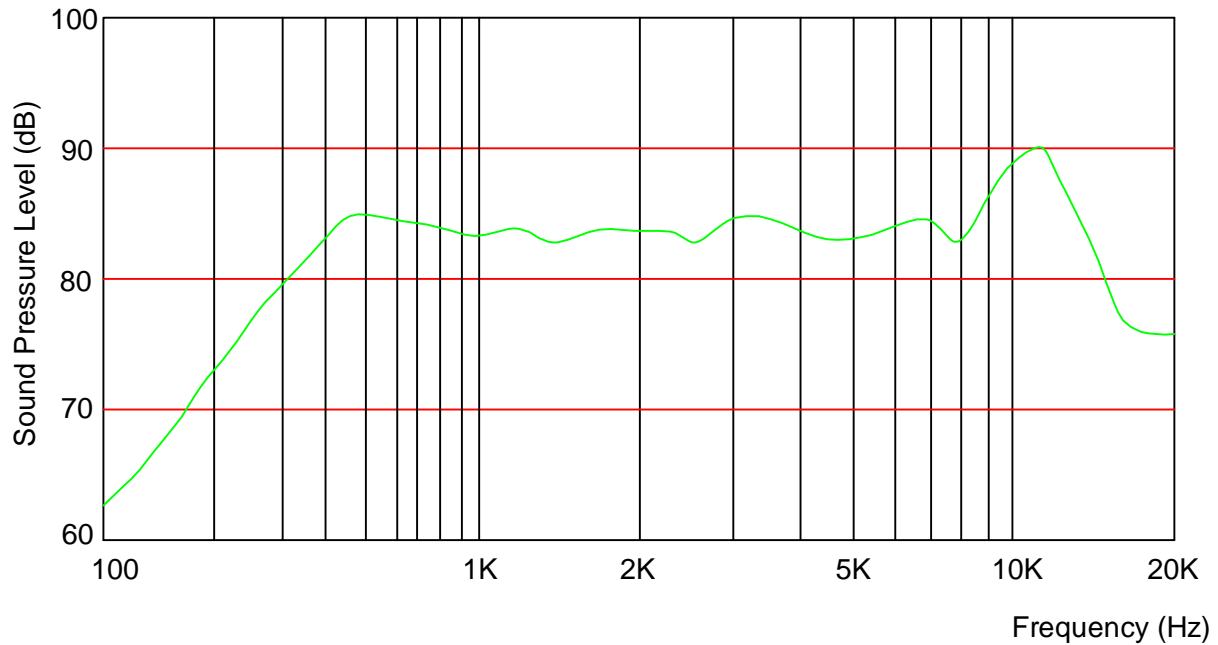
SMARTPHONE SPEAKER :15X11X3.5 mm



BMS1511F-11C-08H3.5RP LF

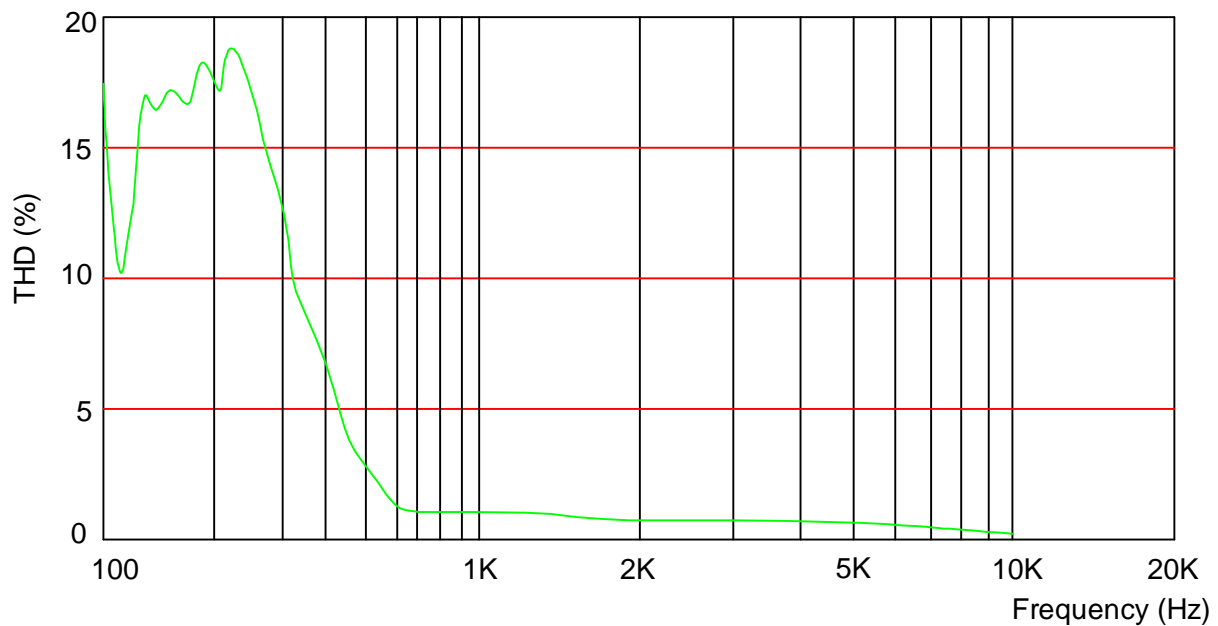
2.3 Frequency Response Curve (only for reference)

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



2.4 Total Harmonic Distortion (only for reference)

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

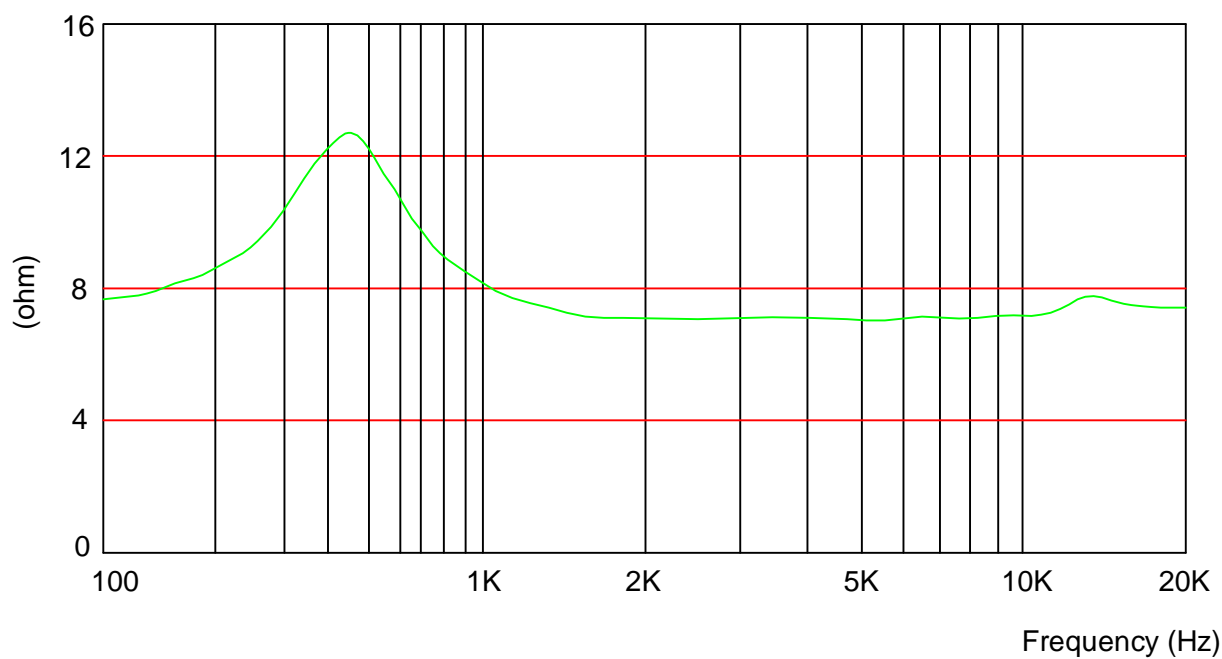


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A	2010/06/09	王文邦		Checked by:	王平	Speaker
Rev.	Date	Drawn	Note	Approved by:	李红元	
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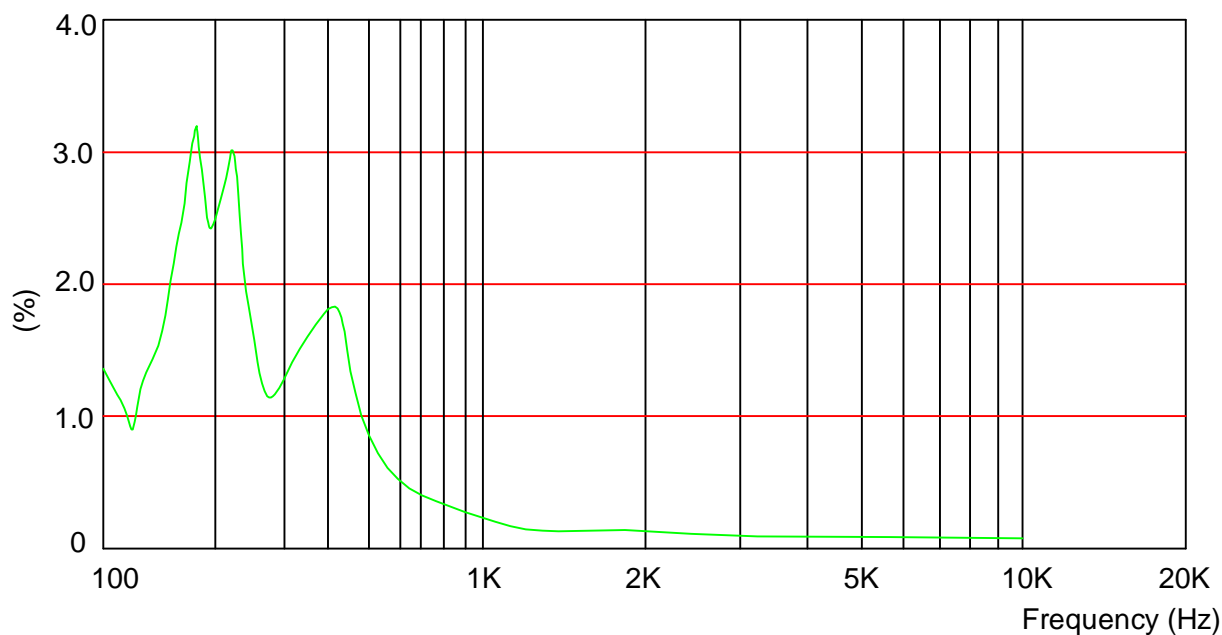
2.5 F0 Curve (only for reference)

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



2.6 R&B Curve (only for reference)

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



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2.7 Measured Parameters

2.7.1 Sensitivity

SPL is expressed in dB rel 20μPa,computed according to IEC 268-5.
Measurement set up according chapter 2.2 and parameters according chapter 2.3.
This test is performed for 100% of products in the production line.

2.7.2 Resonance Frequency

Resonance frequency is measured according test set up in chapter 2.2 and parameters according chapter 2.5
This test is performed for 100% of products in the production line

2.7.3 THD

THD is measured according test set up in chapter 2.2 and parameters according chapter 2.4
This test is performed for 100% of products in production line

2.7.4 R&B

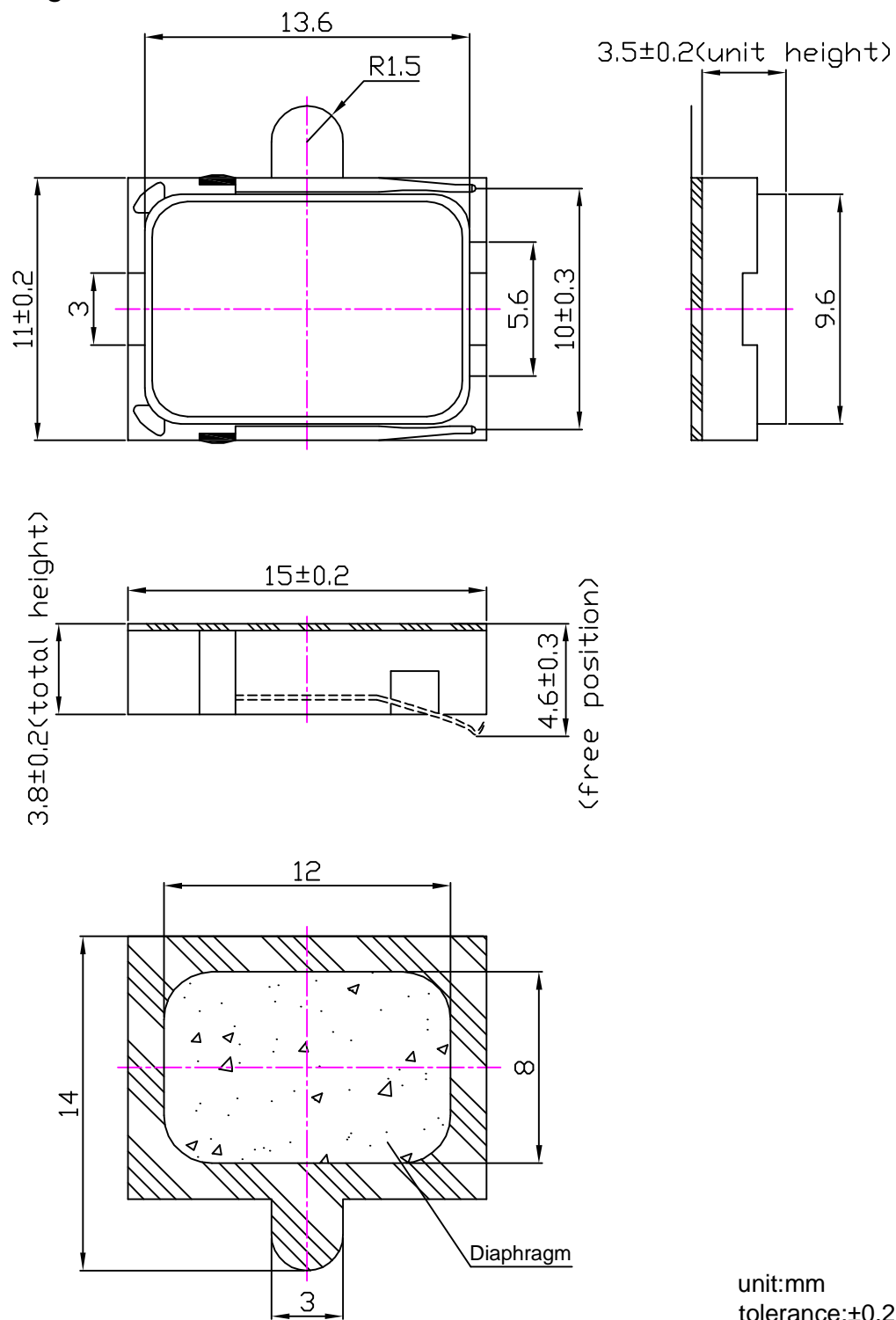
R&B is measured according test set up in chapter 2.2 and parameters according chapter 2.6
This test is performed for 100% of products in production line

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6	5	4	3	2	1		

BMS1511F-11C-08H3.5RP LF

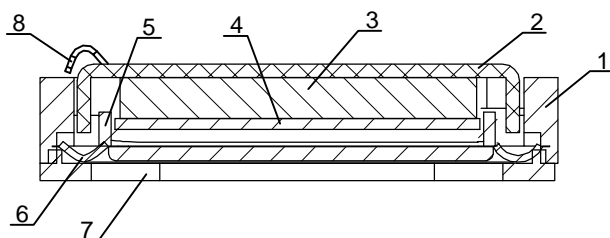
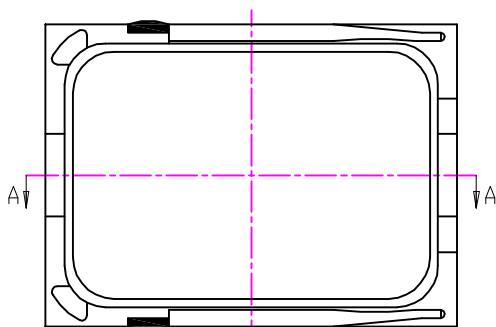
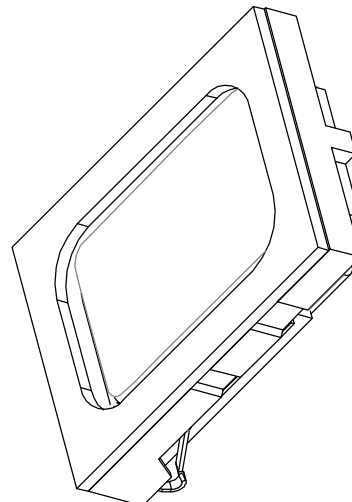
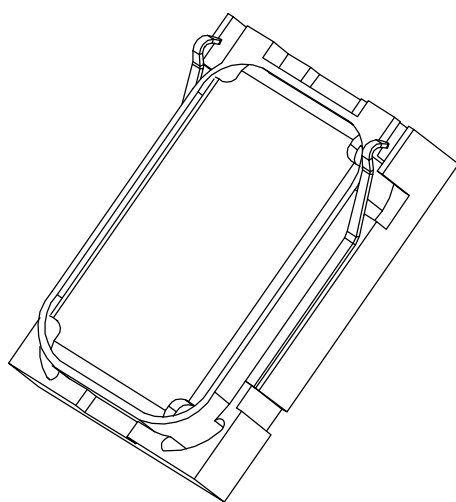
3. Drawing



unit:mm
tolerance:±0.2

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BMS1511F-11C-08H3.5RP LF



剖面 A-A

No	Description of the part
1	Frame
2	Yoke
3	Magnet
4	Plate
5	Coil
6	Diaphragm
7	Grill
8	Terminal

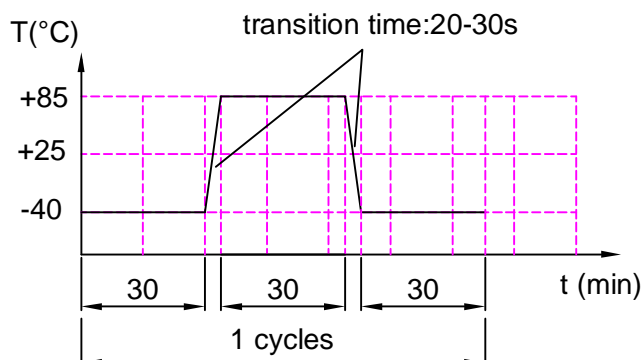
unit:mm
tolerance:±0.2

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4. Reliability Test

4.1 Load Test	
Power (Nom)	0.5W(sine wave)
Duration	96hrs
4.2 High Temperature Test	
Temperature	+85±3°C
Duration	96hrs
4.3 Low Temperature Test	
Temperature	-40±3°C
Duration	96hrs
4.4 Damp Heat	
Temperature	40±3°C
Relative Humidity	90%-95%RH
Duration	96hrs
4.5 Temperature Cycle Test	
Cycles	10



4.6 Drop Test	
Height	1.0m
Drop face	thick board (20mm)
Times	10 (three times in each durement)

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 0.8~1.5KHz shall be within ±3dB from initial value after test.

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5. Notice

5.1 Storage Condition

Please store the products in room where the temperature/humidity is stable.
And avoid such places where there are large temperature changes.
Please store the products under the following conditions:
Temperature: -10 to + 40 degree C
Humidity: 15 to 85% R.H.

5.2 Expire Date on Storage

Expire date (Shelf life) of the products is a months after delivery under the conditions of a sealed and an unopened package.
Please use the products within a months after delivery.
If you store the products for a long time, use carefully because the battery only have 3 months expire time when you store the products for a long time, the battery may be invalidation.

5.3 Product Storage

5.3.1 Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides atc), because the characteristics may be reduced in quality, and/or be degraded in a chemical atmosphere.

5.3.2 Please do not put the products directly on the floor without anything under them to avoid damp places and/or dusty places.

5.3.3 Please do not store the products in the places such as: in a damp heated place in a place where direct sunlight comes in, in place applying vibrations.

5.3.4 Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solderability due to storage under the poor condition.

5.3.5 Please do not drop the products to avoid cracking of ceramic element.

5.4 Please be sure to consult with our sales representative or engineer whenever and prior to using the products.

5.5 Washing of the component is not acceptable, because it is not sealed.

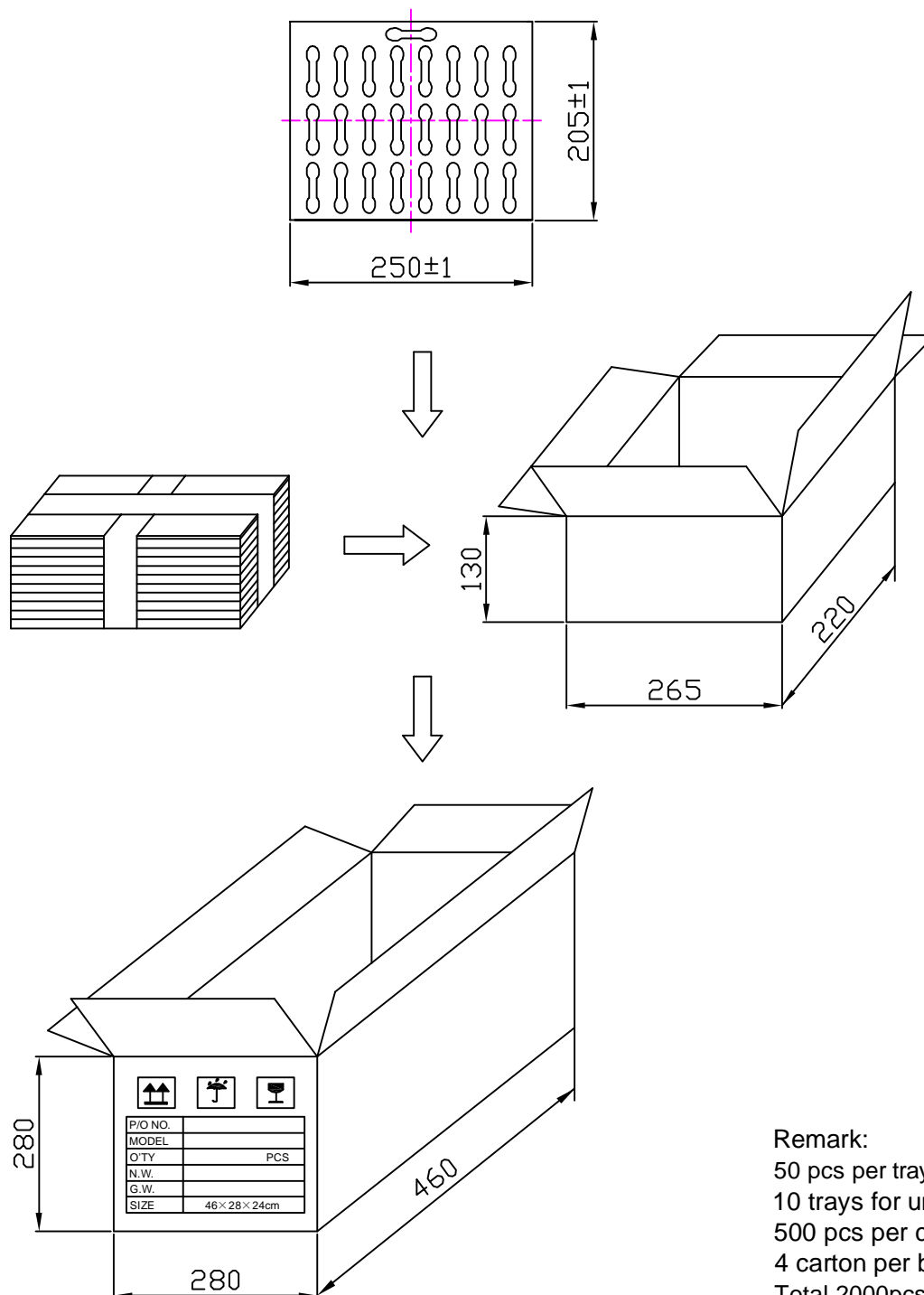
5.6 The component may be damaged if mechanical stress over this specification is applied.

Please pay attention to protect operating circuit from surge voltage provided by something of force such as falling, shock and temperature changing .

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6. Packing



Remark:
50 pcs per tray
10 trays for unit
500 pcs per carton
4 carton per box
Total 2000pcs per box
Size: 46 × 28 × 28(cm)

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