

|                                                                                   |                                      |    |                                                           |
|-----------------------------------------------------------------------------------|--------------------------------------|----|-----------------------------------------------------------|
|  | SPECIFICATION<br>FOR DYNAMIC SPEAKER |    |                                                           |
|                                                                                   | TOTAL PAGE                           | 07 | <a href="http://www.be-star.com">www.be-star.com</a> RoHS |

|              |              |             |                          |
|--------------|--------------|-------------|--------------------------|
| Customer     |              | Model Name  | BMS28-12B-08H05CW100J LF |
| Customer P/N |              | Product No. | 131501                   |
| Date         | 26 Sep. 2011 | Issue No.   | BS/TES01.1107A           |
| Page         | 01 of 07     | Issue Date  | 2011/09/26               |

### Approval:

- 1.Characteristics
- 2.Drawing
- 3.Bill of Material
- 4.Reliability Test
- 5.Packing
- 6.History Change Record

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

### **BESTAR ELECTRONICS INDUSTRY CO.,LTD**

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# BMS28-12B-08H05CW100J LF

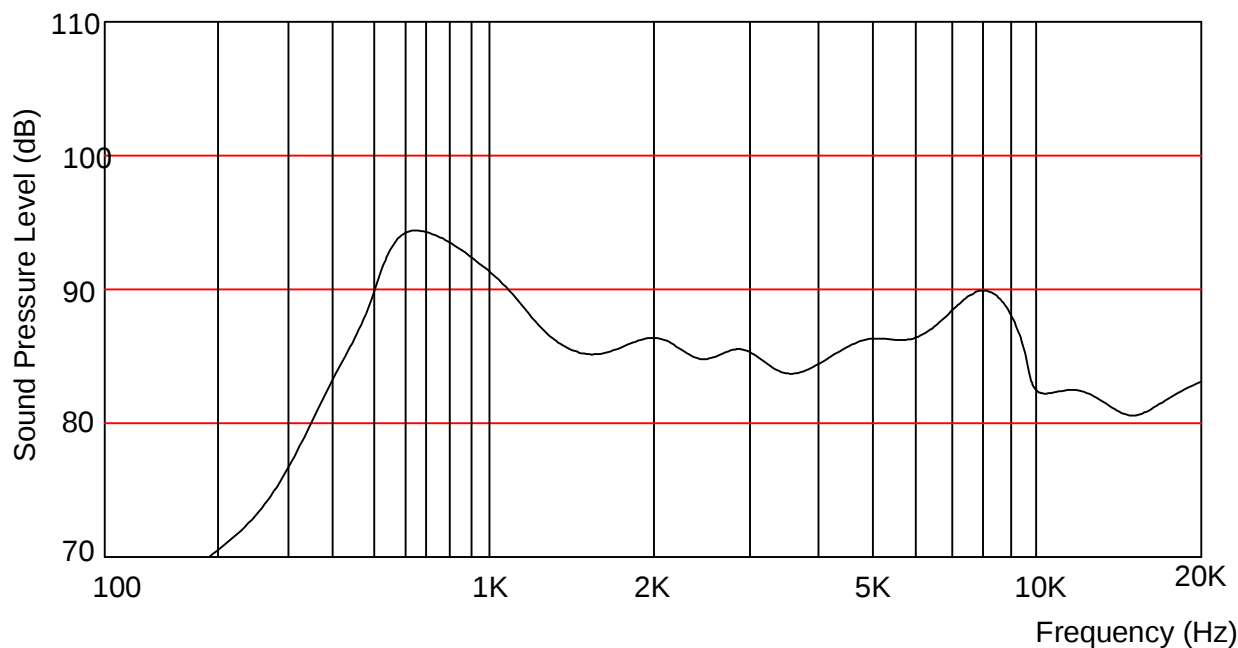
## 1. Characteristic

### 1.1 Electrical and Mechanical Characteristics

| No. | Item                  | Specification                     |
|-----|-----------------------|-----------------------------------|
| 1.  | Impedance(at 1kHz)    | 8±15%Ω                            |
| 2.  | Rated Input Power     | 0.8W                              |
| 3.  | Maximum Input Power   | 1.2W                              |
| 4.  | Resonance Frequency   | 650±20%Hz                         |
| 5.  | Frequency Response    | F0 ~ 20KHz                        |
| 6.  | Output SPL            | ≥90dB at 600Hz (0.1m/0.1w)        |
| 7.  | Distortion            | ≤5%(at 1KHz/0.1W)                 |
| 8.  | Buzzes & Rattles      | Must be normal at sine wave 2.53V |
| 9.  | Magnet                | Nd-Fe-B Ø9.7X1.5mm                |
| 10. | Operating Temperature | -20...+80°C                       |
| 11. | Storage Temperature   | -20...+80°C                       |

### 1.2 Typical Frequency Response Curve (only for reference)

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

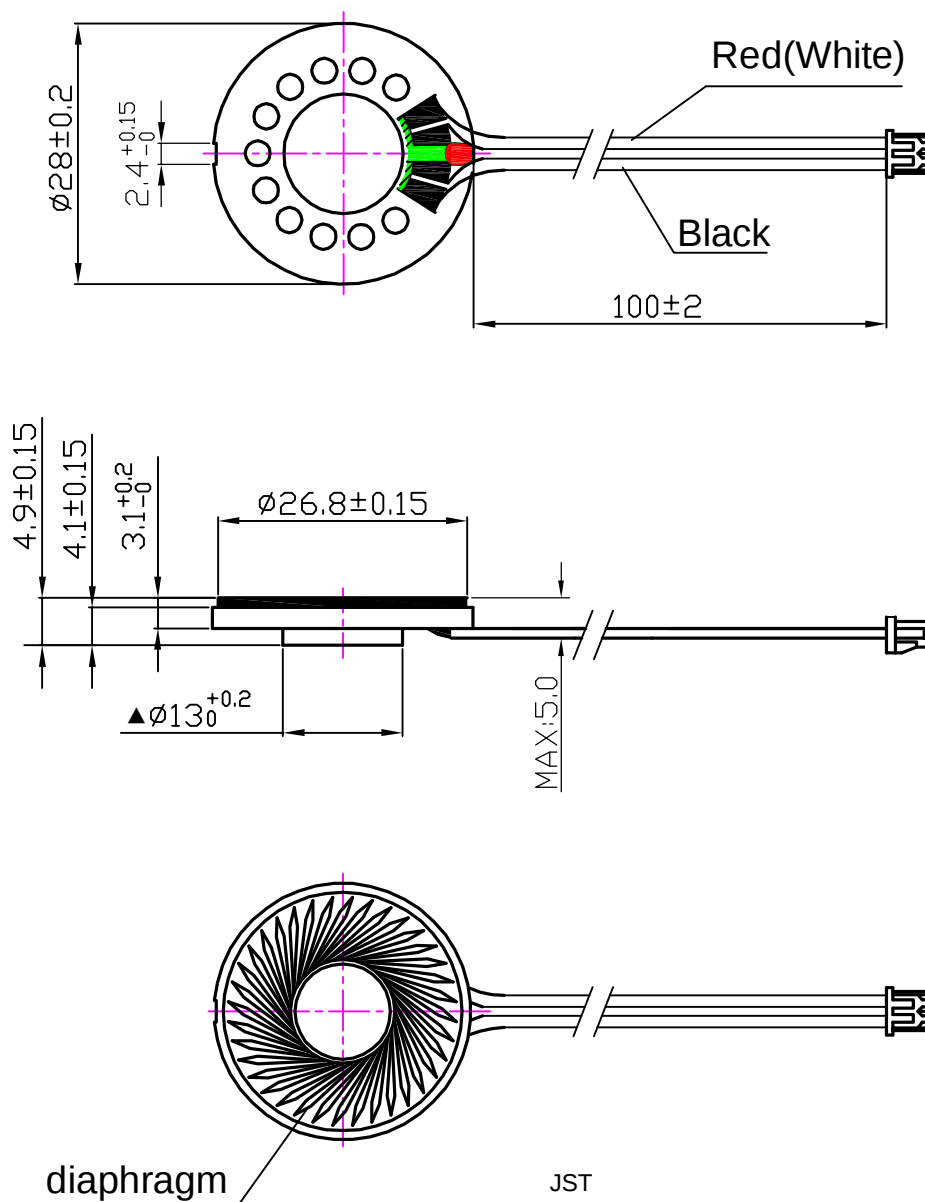


|                                     |            |       |      |              |            |                          |
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| A                                   | 2011/09/26 | 王文邦   |      | Checked by:  | 王平         | Speaker                  |
| Rev.                                | Date       | Drawn | Note | Approved by: | 李红元        |                          |
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# BMS28-12B-08H05CW100J LF

## 2.Drawing

Unit:mm  
Tolerance:±0.2

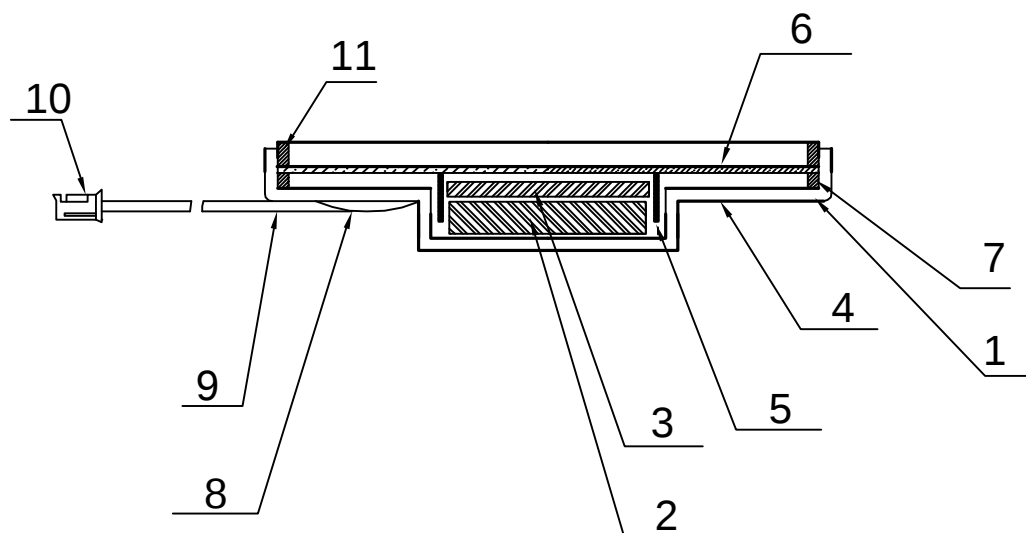


JST  
RECEPTABLE CONECTOR:GHR-02V-S  
CRIMP COPNNECTOR:SSL-002T-P02  
WIRE:UL1571 AWG28# RED/BLACK 100mm

|                                     |            |       |      |              |            |                          |
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## BMS28-12B-08H05CW100J LF

## 3.Bill of Material



|    |                 |          |  |
|----|-----------------|----------|--|
| 11 | Nearby Pressure | ABS      |  |
| 10 | Housing         | ABS&Cu   |  |
| 9  | Terminal/PCB    | Epoxy    |  |
| 8  | Cover           | PC       |  |
| 7  | Rubber Circle   | Cu       |  |
| 6  | Diaphragm       | PEI      |  |
| 5  | Voice coil      | Cu       |  |
| 4  | Mesh            | CLOTH    |  |
| 3  | Washer          | SPCC     |  |
| 2  | Magnet          | Nd-Fe-B  |  |
| 1  | Frame           | SPCC     |  |
| No | Parts Name      | Material |  |

|                                     |      |            |      |              |            |                          |
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## 4. Reliability Test

### 4.1 Load Test

Power 0.8W  
Duration 96hrs

### 4.2 High Temperature Test

Temperature  $+80\pm 3^{\circ}\text{C}$   
Duration 96hrs

### 4.3 Low Temperature Test

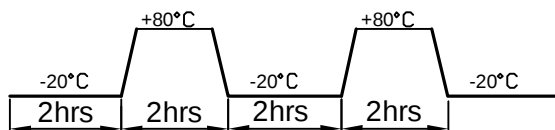
Temperature  $-20\pm 3^{\circ}\text{C}$   
Duration 96hrs

### 4.4 Damp Heat

Temperature  $40\pm 3^{\circ}\text{C}$   
Relative Humidity 90%-95%RH  
Duration 96hrs

### 4.5 Temperature Cycle Test

Cycle 5



### 4.6 Drop Test

Height 100cm (in state of packing)  
Times 10 (Drop onto hardwood board)

All these tests above should be measured after leaving normal temperature for 1hrs.

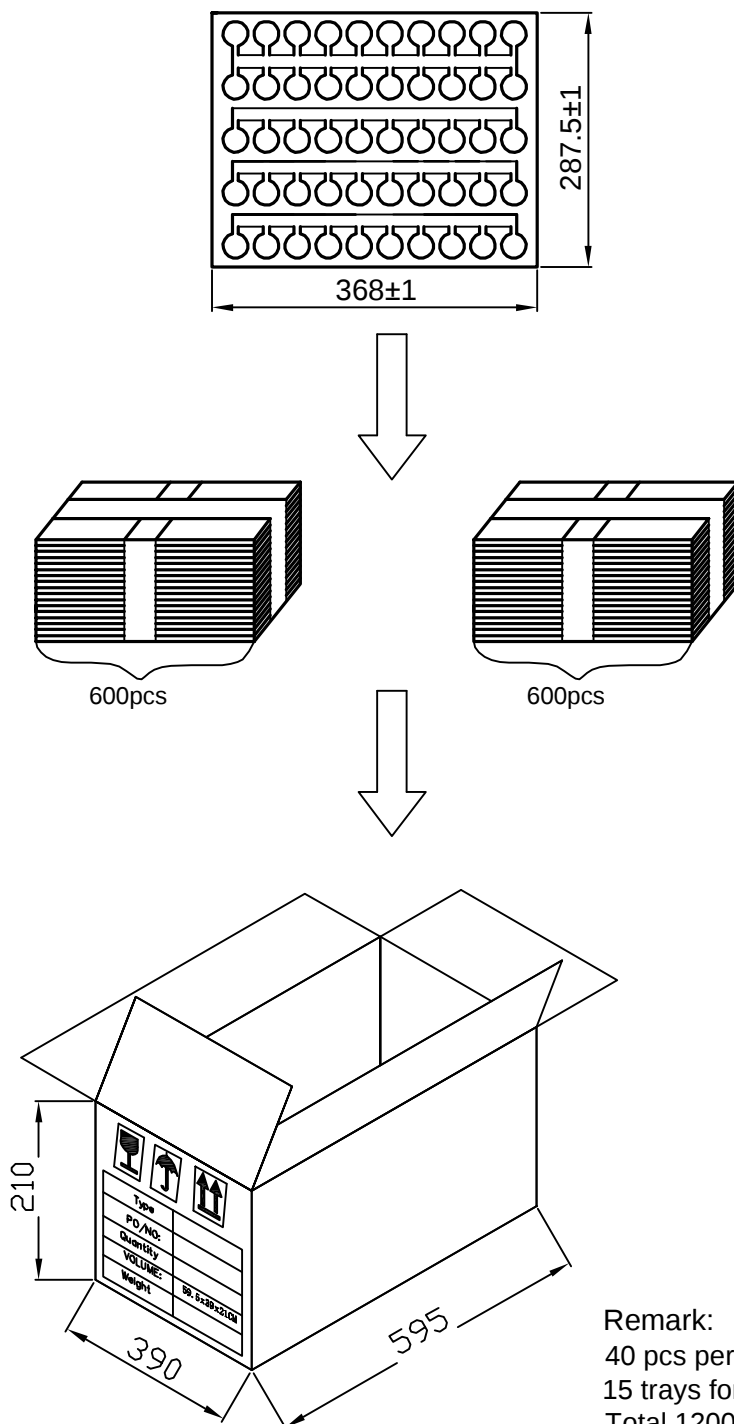
sensitivity difference at 1kHz shall be within  $\pm 3\text{dB}$  from initial value after test.

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# BMS28-12B-08H05CW100J LF

## 5.Packing



Remark:  
40 pcs per tray  
15 trays for unit, 2 units per carton  
Total 1200pcs per carton  
Size: 59.5×39×21(cm)

|                                     |      |            |      |              |            |                          |
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## 6. History Change Record

[illegible]

|                                     |      |            |       |           |              |                          |             |
|-------------------------------------|------|------------|-------|-----------|--------------|--------------------------|-------------|
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