

## ALTERNATION HISTORY

[illegible]

| REV. | DATE        | PREPARED BY | CHECKED BY | APPROVED BY |
|------|-------------|-------------|------------|-------------|
| F    | JUL,14,2009 | 蔡爱国         | 7/16       | 7/16        |

**MODEL NO : OBO-57008F-01****Features: Conformity RoHS Directive(2002/95/EC) Requests.****1. General Specifications**

| Items                               | Spec.                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Magnet                              | Materials NdFeB Size: $\Phi 12.5 \times 1.5$ mm                                                |
| Weight                              | Approx 16.8 Grams                                                                              |
| Nominal Impedance                   | 8 Ohm $\pm 15\%$ At 700 Hz/1.0V                                                                |
| Power Rating                        | Normal 0.5W. Maximum 1.0W.                                                                     |
| Lowest Resonant Frequency           | 500 $\pm 150$ Hz                                                                               |
| Output Sound Pressure Level (S.P.L) | 88 $\pm 3$ dB /0.5W/0.5Meter (Secundum IEC-268-5 Statute)<br>Average at 1000,1200,1500,2000Hz. |
| Frequency Range                     | 350 ~ 13,000 Hz. Average SPL -10dB.                                                            |
| Distortion                          | 5% Maximum at 500Hz. 0.5W                                                                      |
| Abnormal Sound Test                 | Must be Normal Tested by 2.0Volts. Sine Wave.                                                  |
| Polarity                            | Diaphragm Shall More Forward When Apply a Positive DC Current To The "+" or "marked" Terminal  |
| Operating Temperature               | -25°C to +50°C                                                                                 |
| Storage Temperature                 | -25°C to +55°C                                                                                 |

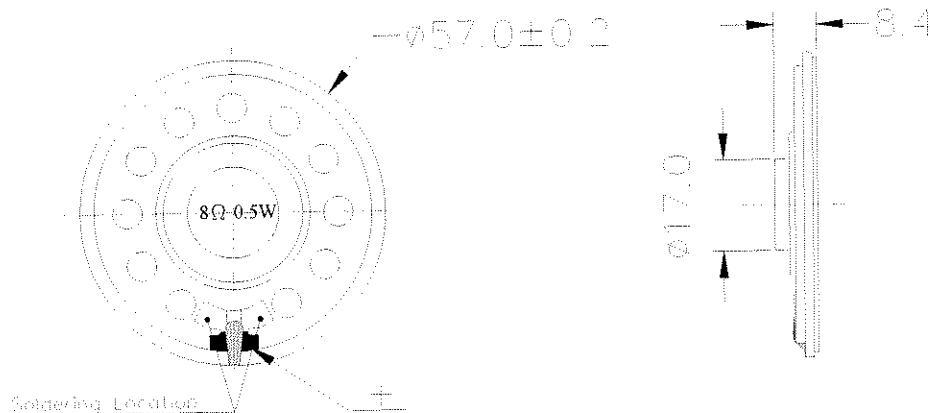
**2. Environmental Test**

|                        |                                                          |                                                                   |
|------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
| Humidity Test          | Temperature:                                             | +40°C $\pm 3$ °C                                                  |
|                        | Relative Humidity:                                       | 90% ~ 95%                                                         |
|                        | Duration:                                                | 96 Hours                                                          |
|                        | Duration of recovery:                                    | 6 Hours                                                           |
| Temperature Cycle Test | Temperature:                                             | +55°C $\rightarrow$ +25°C $\rightarrow$ -25°C $\rightarrow$ +25°C |
|                        | Duration:                                                | 1Hour 1Hour 1Hour 1Hour                                           |
|                        | Cycle:                                                   | 3 Cycles                                                          |
| Vibration Test         | Vibration Direction:                                     | 3 axes                                                            |
|                        | Mounting:                                                | Unit Shall Be Rigidly Restrained On The Table                     |
|                        | Frequency:                                               | 1,000 Cycle/Minute                                                |
|                        | Amplitude:                                               | 1.5m/m                                                            |
|                        | Endurance:                                               | 1 Hour in Each Plane                                              |
| Load Test              | Duration of Transfer Time:                               | Less Than 5Minutes                                                |
|                        | White Noise With Weighted Filter 2.0 Volts.(RMS) 96 Hrs. | 20~20,000Hz Resonant Frequency.                                   |
| Drop Test              | 75cm Free Falling On Concrete Floor, with 10 times.      |                                                                   |

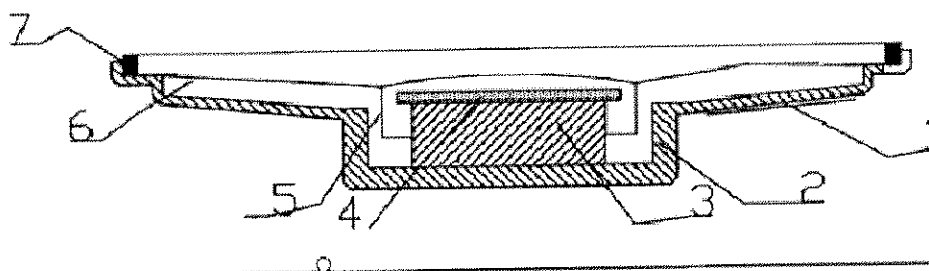
### 3. Mechanical Layout And Dimensions

#### 3.1 Dimensions

Unit: mm Tol: ±0.3



#### 3.2 Construction Diagram

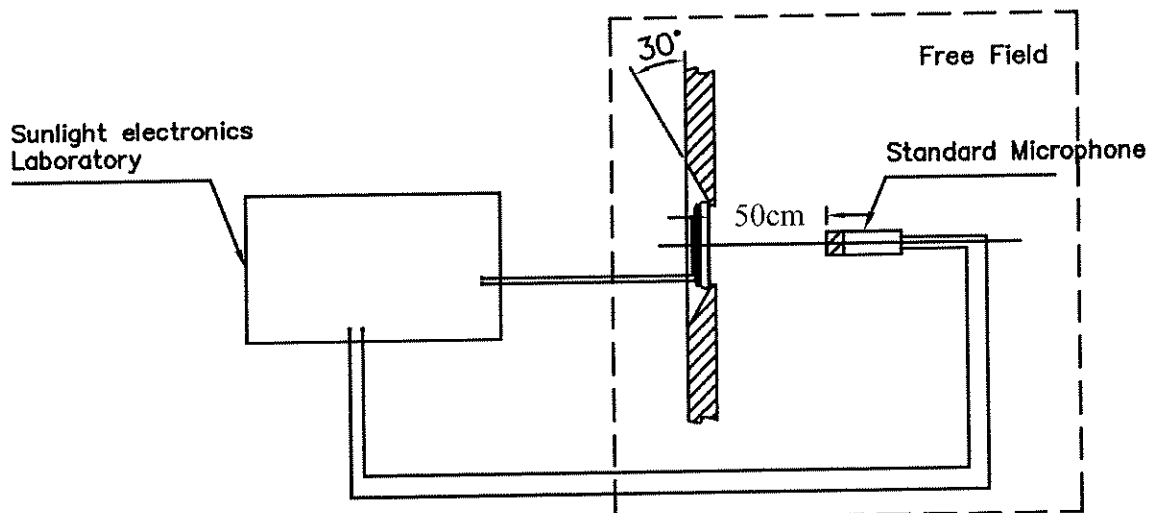


|    |            |             |      |
|----|------------|-------------|------|
| 7  | GASKET     | PAPER       | 1    |
| 6  | DIAPHRAGM  | MYLAR       | 1    |
| 5  | VOICE COIL | DIA 13.4 mm | 1    |
| 4  | WASHER     | SPCC        | 1    |
| 3  | MAGNET     | NdFeB       | 1    |
| 2  | YOKE       | SPCC        | 1    |
| 1  | TERMINAL   | P.C.B       | 1    |
| NO | PART NAME  | MATERIAL    | Q'TY |

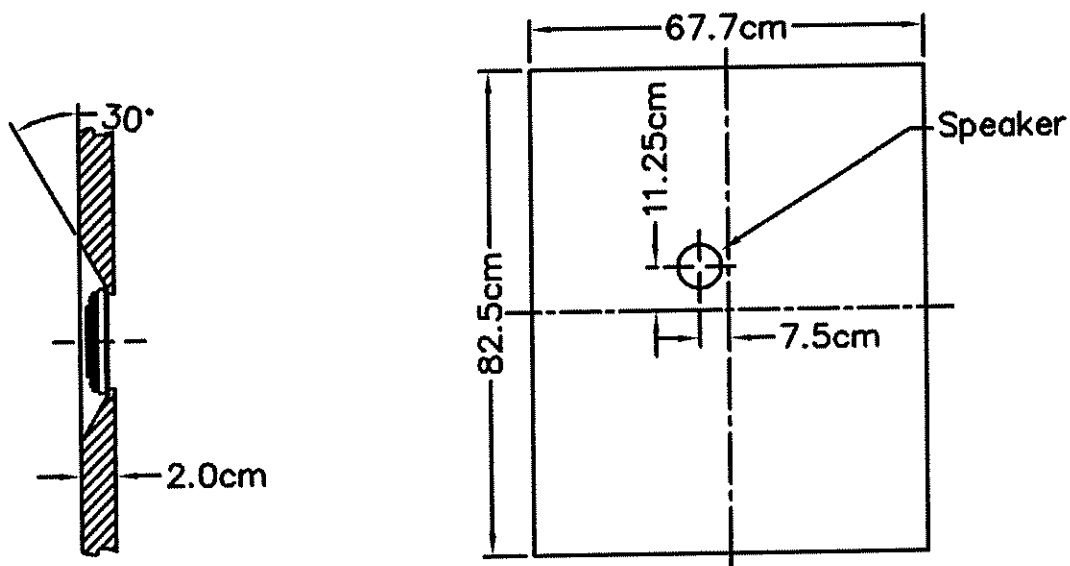
### 4. Test Method

#### 4.1 Measurement Diagram

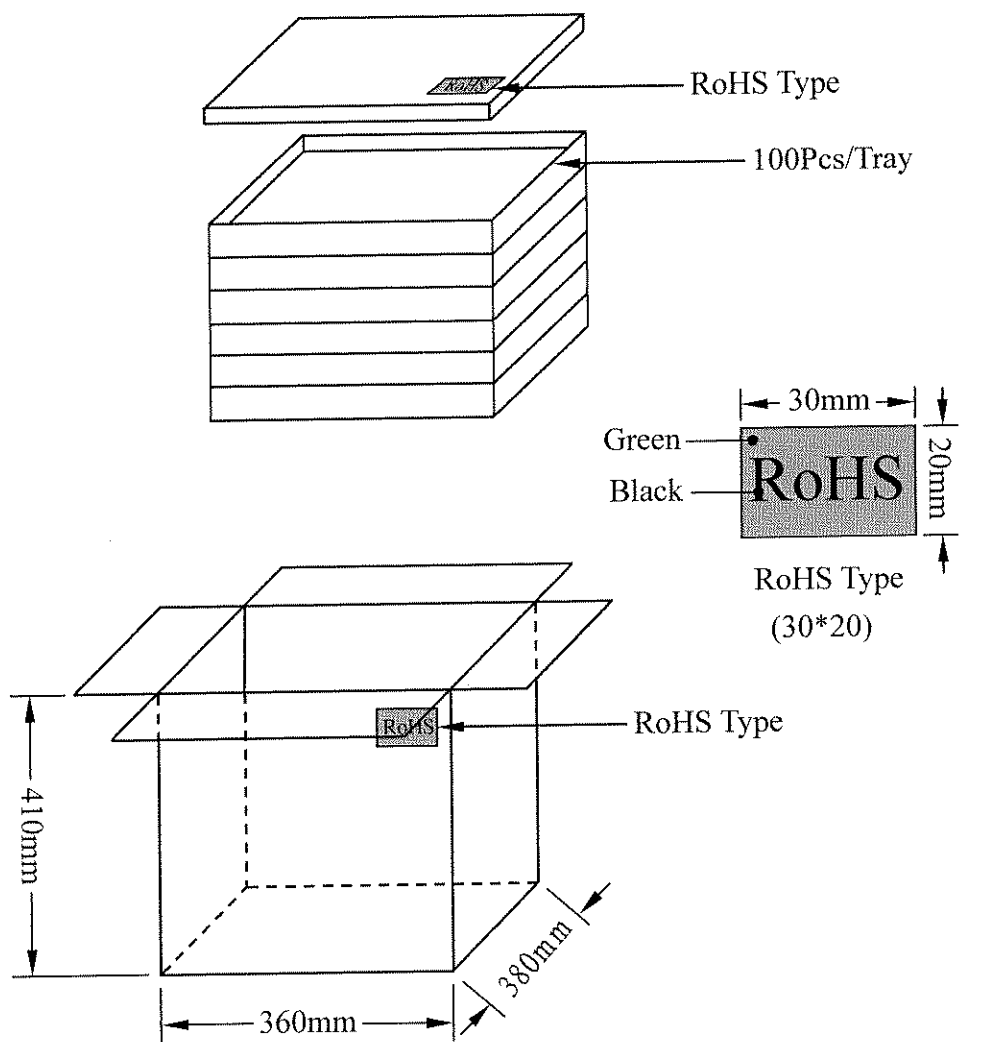
Electroacoustic  
Testing Adapter



#### 4.2 Standard Baffle



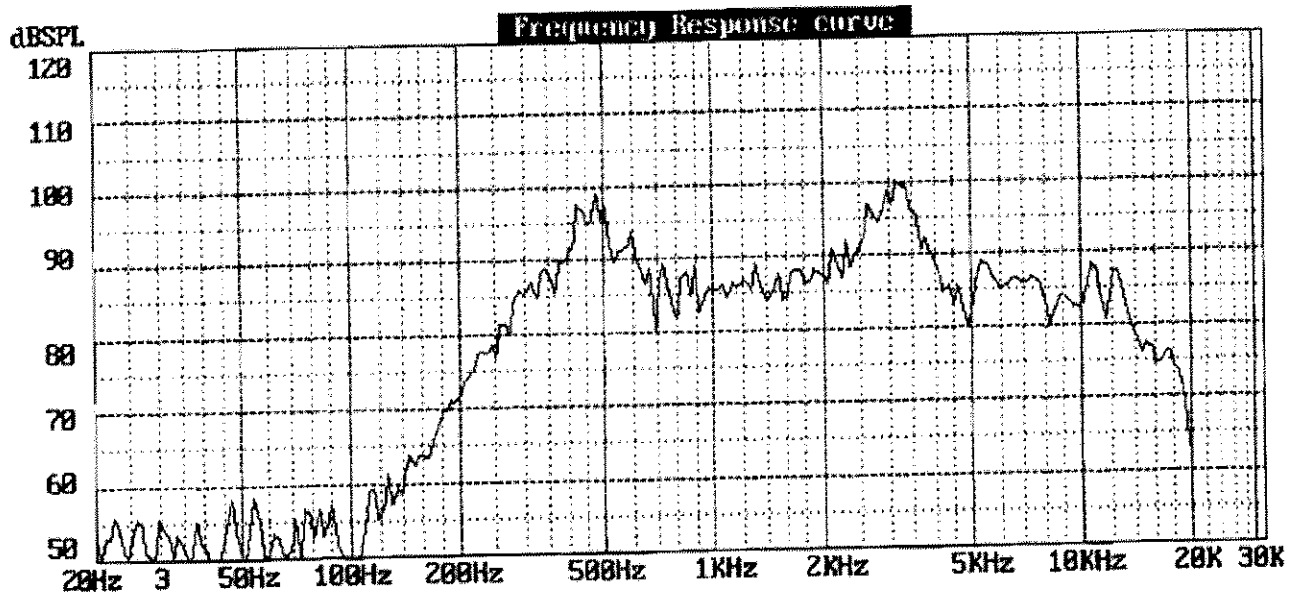
### 5. Packing



600Pcs/Carton  
6Tray(360\*380\*410mm)

**6. Frequency Response Curve**

Firm: OBO      Model:      DATE: 87-13-2009      TIME: 01:53:56  
1000Hz Sens. = 85.5dB SPL Pass      F.R.: Pass      DCR: 8.47Ω Pass  
Average SPL: 85.8dB SPL Pass      (1000;1200;1500; 2000Hz)      Sweep Speed: 1/24 Oct.

**B 6.18**

Voltage applied for **F.R.** = 2.000V      **Start F.** = 20Hz      **Stop F.** = 20000Hz  
Measuring Distance = 0.50M

**Mfg.:****Measured using Sunlight 1600; Fax: 886-2-22230727**