

OBO Pro.2**SPECIFICATIONS**MODEL NO
OBO-23008F-01PART NAME
DYNAMIC SPEAKERSHEET
2 OF 5

MODEL NO : OBO-23008F-01

Features:Conformity RoHS Directive(2002/95/EC) Requests.

1. General Specifications

| Items | Spec. |
|-------------------------------------|--|
| Magnet | Materials NdFeB Size: $\Phi 8.0 \times 1.5\text{mm}$ |
| Weight | Approx 3.1Grams |
| Nominal Impedance | 8 Ohm $\pm 15\%$ At 1000 Hz /1.0V |
| Power Rating | Normal 0.2W. Maximum 0.5W. |
| Lowest Resonant Frequency | 750 $\pm 150\text{Hz}$. |
| Output Sound Pressure Level (S.P.L) | 82 $\pm 3\text{dB}$ /0.2W/0.5Meter Average at 1000,1200,1500,2000Hz. |
| Frequency Range | 550 ~ 6000 Hz. Average SPL -10dB. |
| Distortion | 5% Maximum At 1000Hz/ 0.2W |
| Abnormal Sound Test | Must be Normal Tested by 1.26Volts. Sine Wave. |
| Polarity | Diaphragm shall move Forward when Apply a Positive DC Current to the "+" or "Marked" Terminal. |
| Operating Temperature | -25 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ |
| Storage Temperature | -25 $^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$ |

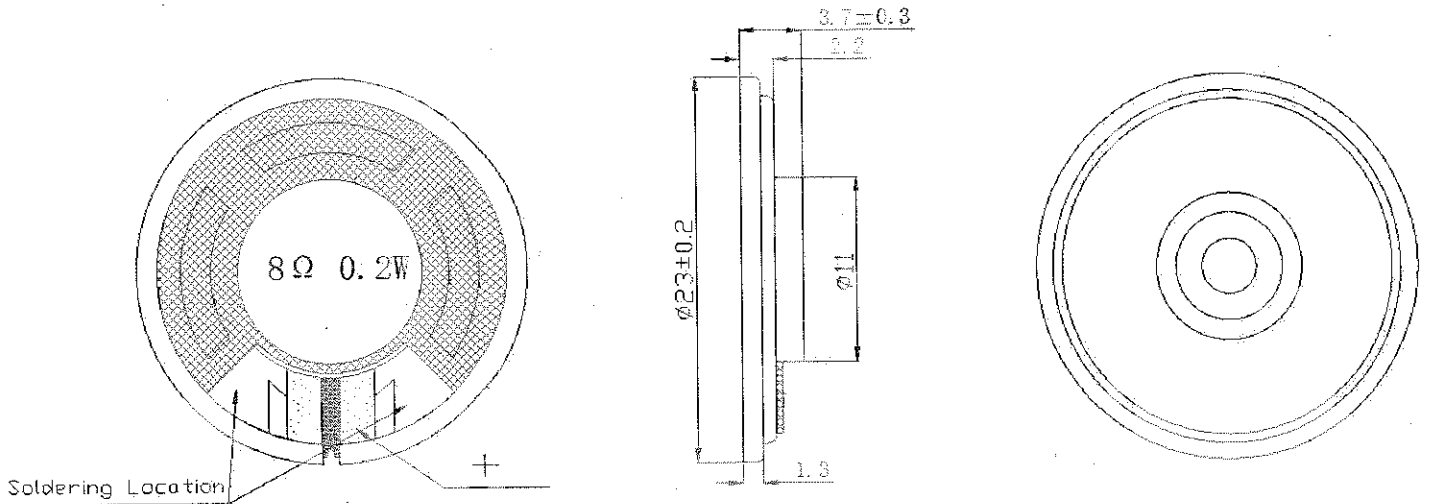
2. Environmental Test

| | | |
|------------------------|--|--|
| Humidity Test | Temperature: | +40 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ |
| | Relative Humidity: | 90% ~ 95% |
| | Duration: | 96 Hours |
| | Duration of recovery: | 6 Hours |
| Temperature Cycle Test | Temperature: | +55 $^{\circ}\text{C} \rightarrow +25^{\circ}\text{C} \rightarrow -25^{\circ}\text{C} \rightarrow +25^{\circ}\text{C}$ |
| | 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 |
| | Duration of Transfer Time: | Less Than 5Minutes |
| Load Test | White Noise With Weighted Filter 1.26Volts.(RMS) 100 Hrs. 20~20,000Hz Resonant Frequency. | |
| Drop Test | 75cm Free Falling On Concrete Floor, with 10 times. | |

3. Mechanical Layout And Dimensions

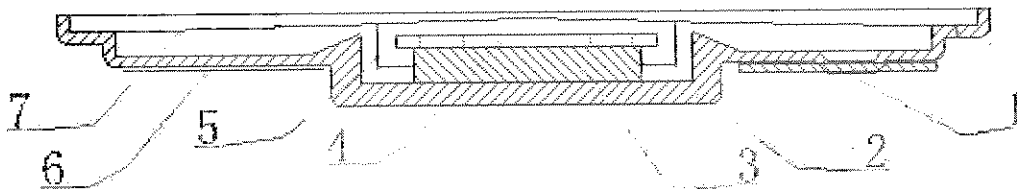
3.1 Dimensions

Unit: mm Tol: ±0.5



※1 P.C.B Soldering Temperature 380°C Max For 3 Seconds

3.2 Construction Diagram

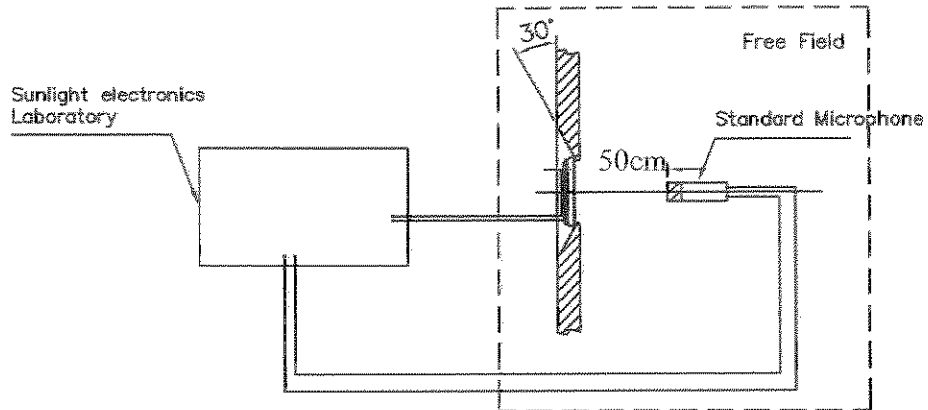


| | | | |
|----|------------|------------|-----|
| 10 | | | |
| 9 | | | |
| 8 | | | |
| 7 | DIAPHRAGM | MYLAR | 1 |
| 6 | CLOTH | CLOTH | 1 |
| 5 | VOICE COIL | DIA 8.74mm | 1 |
| 4 | WASHER | SPCC | 1 |
| 3 | MAGNET | NdFeB | 1 |
| 2 | YOKE | SPCC | 1 |
| 1 | TERMINAL | P.C.B | 1 |
| NO | PART NAME | MATERIAL | QTY |

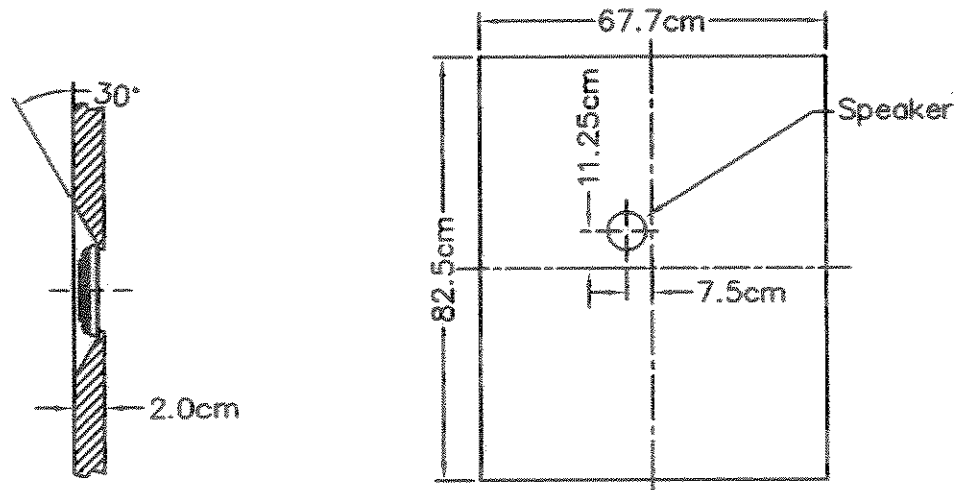
4. Test Method

4.1 Measurement Diagram

Electroacoustic
Testing Adapter

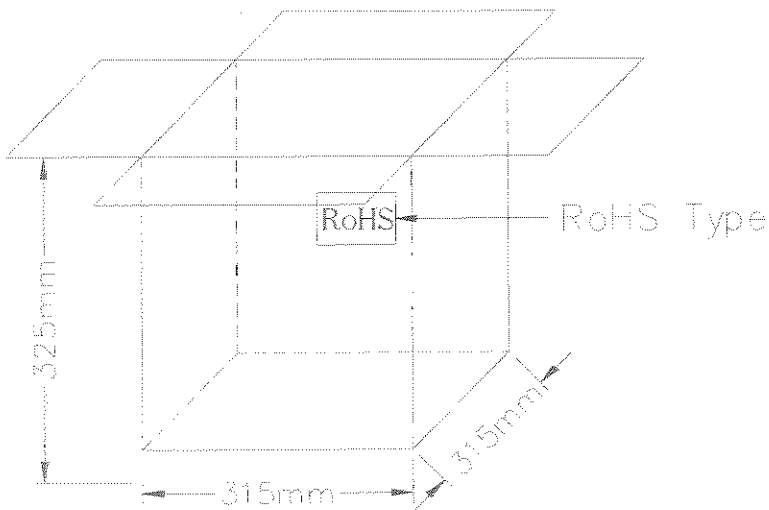
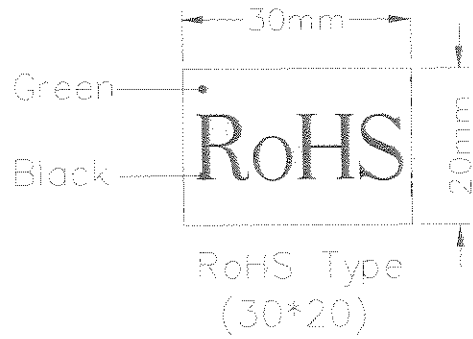
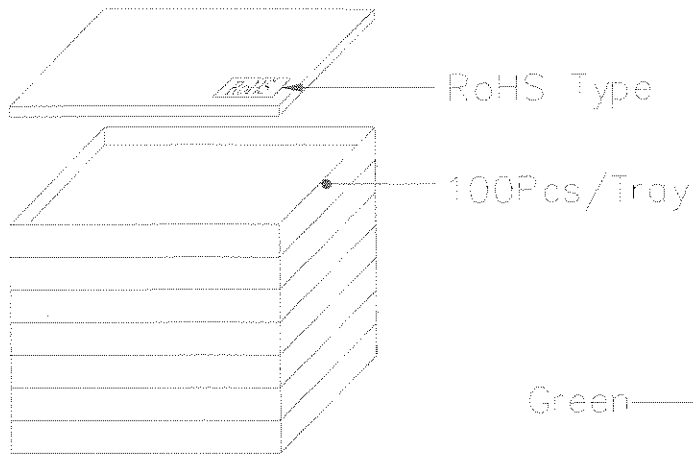


4.2 Standard Baffle



5. Packing

※1 ※2



2000Pcs/Carton
20Tray(315*315*325mm)