

# OBO Pro.2

## SPECIFICATIONS

MODEL NO.  
OBO-27032G-01PART NAME  
DYNAMIC SPEAKERSHEET  
OBO OF 6. 2 INC.

2011 AUG 04

文件发行章

### ALTERNATION HISTORY

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	JUL,13,2006	DG0607006	C	Change to RoHS Type	6	蔡愛國	
※2	AUG.04,2011	DG1108004	D	Change Dimensions	6	陆志眉	Jozm

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
D	AUG.04,2011	陆志眉	王志刚 8/4	Jozm 8/4

**OBO Pro.2****SPECIFICATIONS****MODEL NO.**  
OBO-27032G-01**PART NAME**  
DYNAMIC SPEAKER**SHEET**  
OBO 2 OF 6 INC.

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**MODEL NO : OBO-27032G-01**

Features:Conformity RoHS Directive(2002/95/EC) Requests.(\*)1

**1. General Specifications**

Items	Spec.
Magnet	Materials NdFeB Size: $\phi 12.5 \times 1.5$ mm.
Weight	Approx 4.8 Grams
Nominal Impedance	32 Ohm $\pm 15\%$ At 1400 Hz/1.0V.
Power Rating	Normal 0.2W. Maximum 0.5W.
Lowest Resonant Frequency	680 $\pm$ 150 Hz.
Output Sound Pressure Level (S.P.L)	80 $\pm$ 3dB /0.2Watt 0.5Meter. Average at 1000,1200,1500,2000Hz.
Frequency Range	400 ~ 7,000 Hz. Average SPL-10 dB.
Distortion	5% Maximum At 1000 Hz. 0.2W.
Abnormal Sound Test	Must be Normal Tested by 2.53Volts. Sine Wave.
Polarity	Diaphragm shall move Forward when Apply a Positive DC Current to the "+" or "Marked" Terminal.
Operating Temperature	-25 $^{\circ}$ C to +50 $^{\circ}$ C
Storage Temperature	-25 $^{\circ}$ C to +55 $^{\circ}$ C

**2. Environmental Test**

Humidity Test	High Temperature	:	+40 $^{\circ}$ C $\pm$ 3 $^{\circ}$ C
	Relative Humidity	:	90% ~ 95%
	Duration	:	96 Hours
	Duration of recovery	:	6 Hours
Temperature Cycle Test	Temperature	:	+55 $^{\circ}$ C $\rightarrow$ +25 $^{\circ}$ C $\rightarrow$ -25 $^{\circ}$ C $\rightarrow$ +25 $^{\circ}$ 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
Load Test	Amplitude	:	1.5m/m
	Endurance	:	1 Hour in Each Plane
	Duration of Transfer Time	:	Less Than 5Minutes
Drop Test	White Noise With Weighted Filter 2.53Volts.(RMS) 96 Hrs. 20~20,000Hz Resonant Frequency.		
Drop Test	75cm Free Falling On 1 Cm Floor, with 4 times.		

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SHEET  
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3 OF 6

2011 AUG 04

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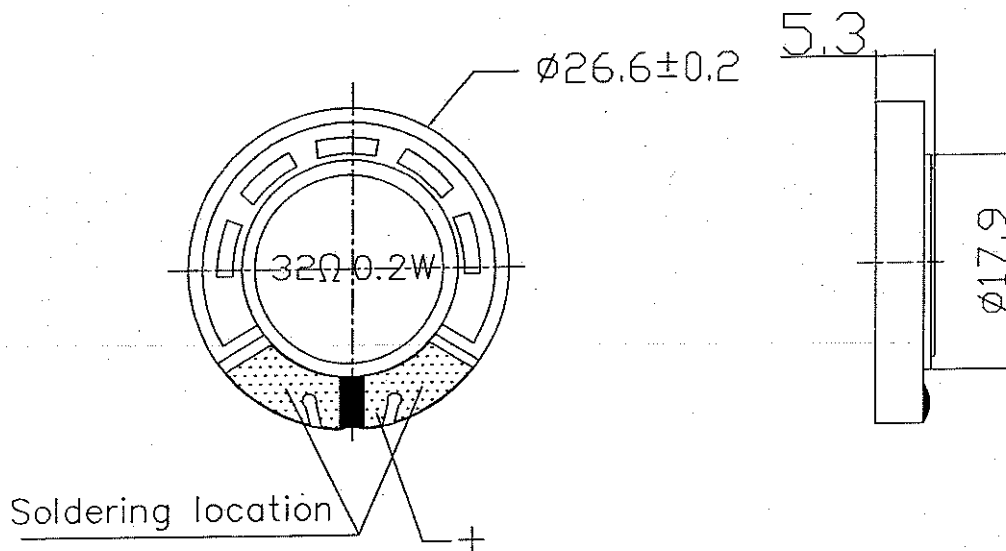
**3. Mechanical Layout And Dimensions**

3.1 Dimensions

※2

Unit: mm

Tolerance:  $\pm 0.3$



※1 PCB Soldering Temperature 280~320° Max For 3 Seconds.

**OBO Pro.2.**

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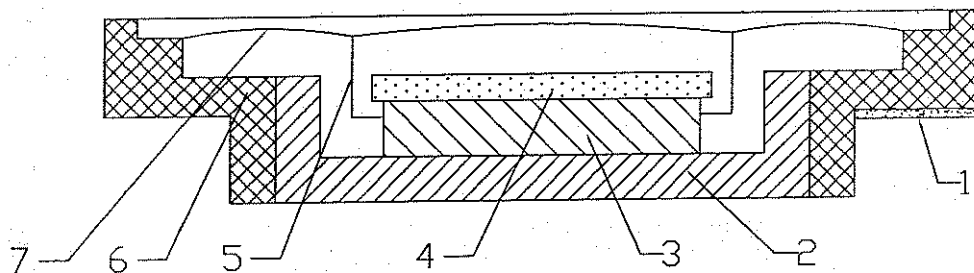
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DYNAMIC SPEAKER

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3.2 Construction Diagram



7	DIAPHRAGM	MYLAR	1
6	FRAME	ABS	1
5	VOICE COIL	DIA 13.50mm	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

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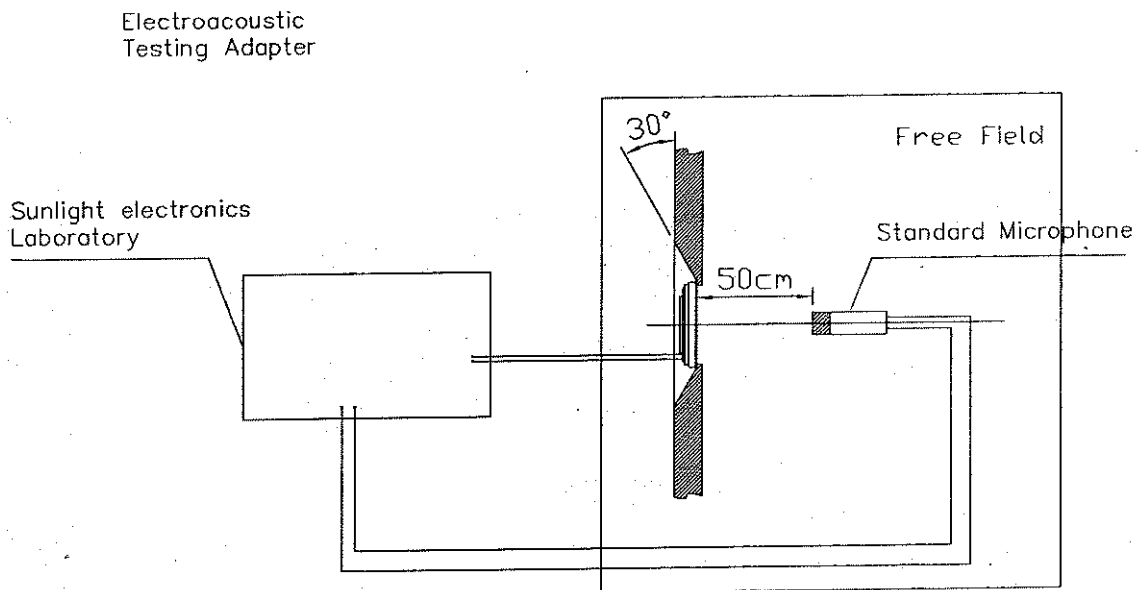
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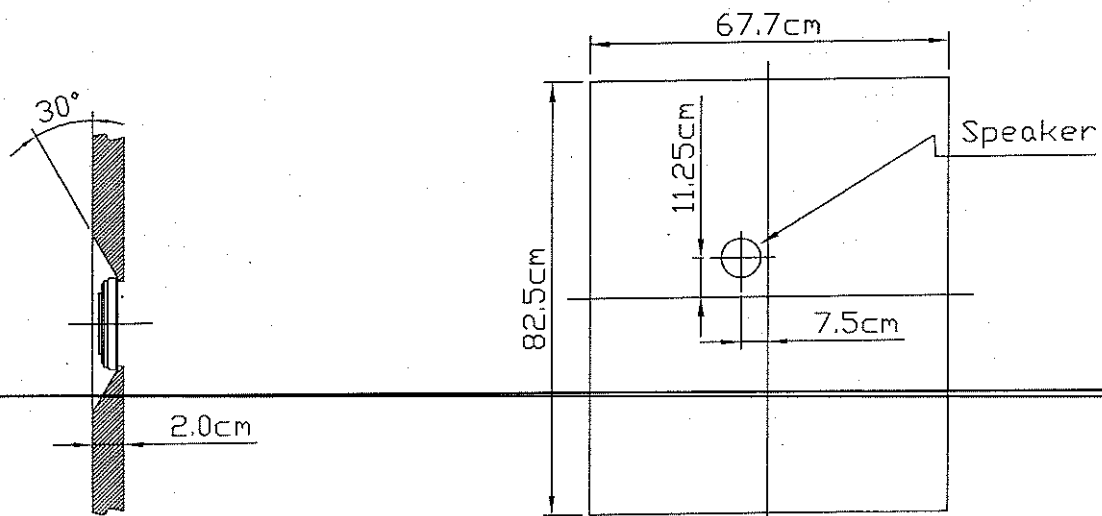
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**4. Test Method**

4.1 Measurement Diagram



4.2 Standard Baffle



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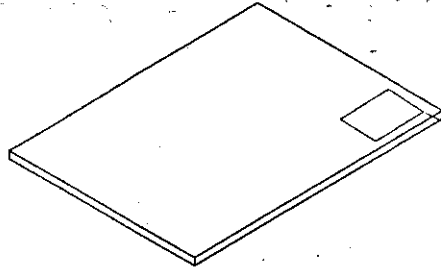
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6 OF 6

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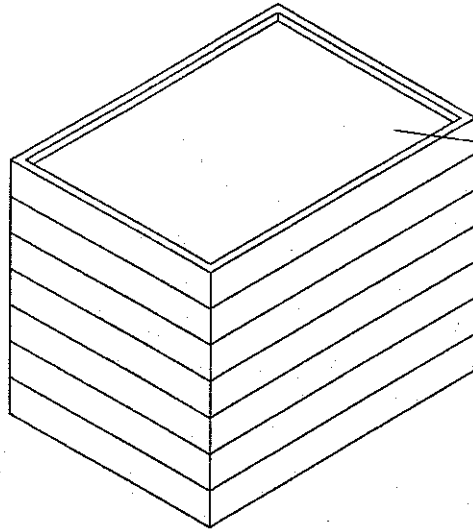
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※1 **5. Package**

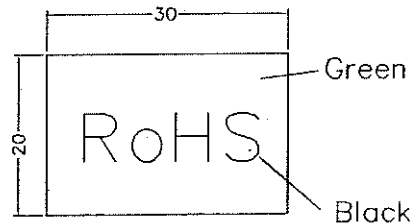
Unit:mm



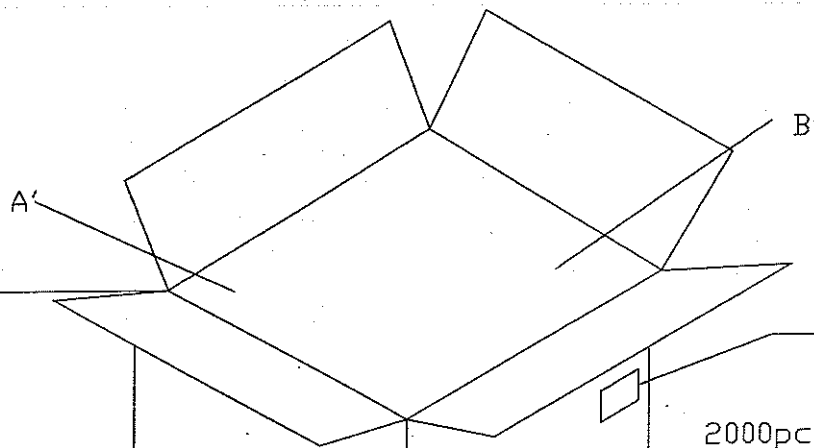
RoHS Tape  
(Right down of Cover)



80pcs/TRAY



RoHS Tape  
(30\*20mm)



RoHS Tape  
(Right Top of Carton)

2000pcs/Carton  
25TRAY(400\*355\*465mm)

465

400

355

B

A

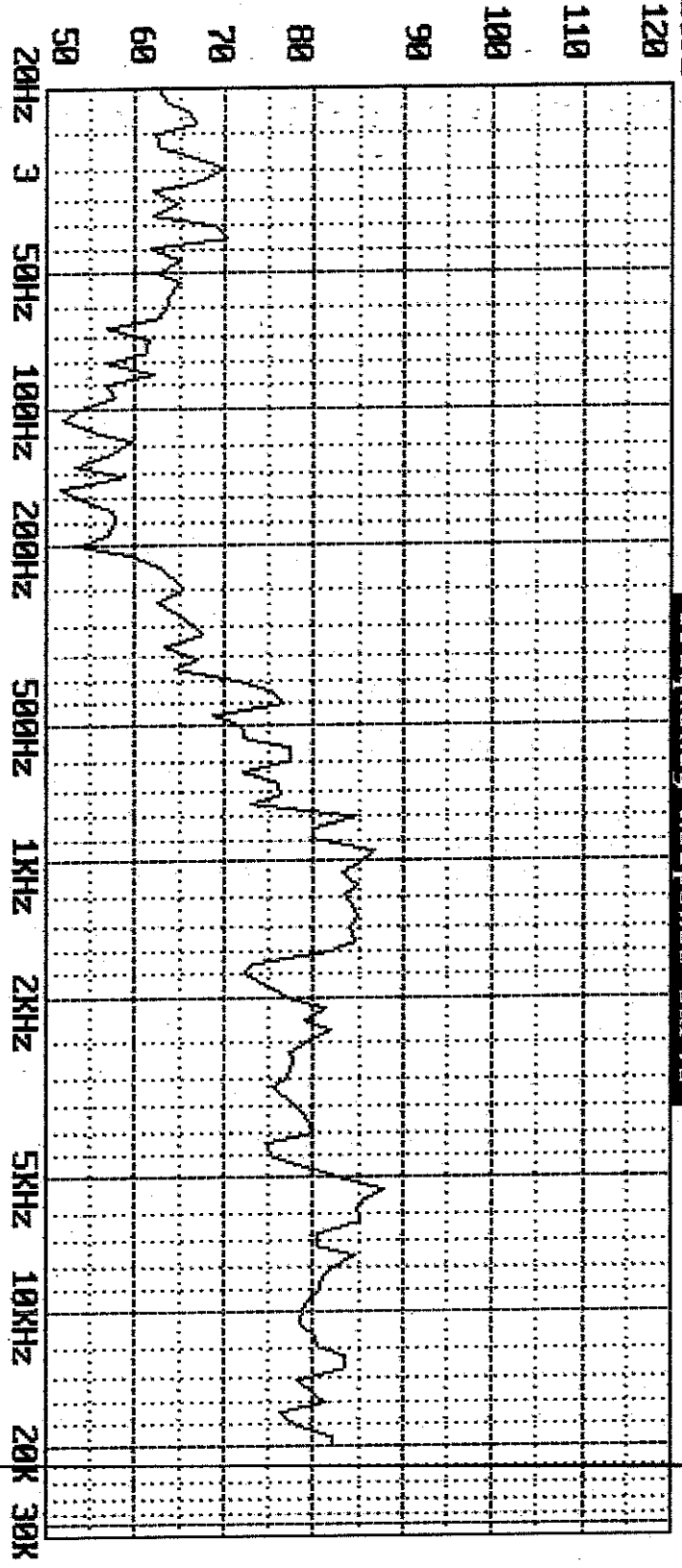
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Firm: *Model 1: OBO-270326-01* DATE: 07-28-2011 TIME: 16:09:58  
 1000Hz Sens. = 85.5dB SPL Pass F.R.: Pass DCR: 30.90 Pass  
 Average SPL: 82.7dB SPL Pass (1000:1200:1500:2000Hz) Sweep Speed: 1/12 Oct.

dB SPL

Frequency Response curve

B 6.18



Voltage applied for **F.R.** = 2.530V  
 Measuring Distance = 0.50M

**Start F.** = 20Hz **Stop F.** = 20000Hz

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