

OBO Pro.2**SPECIFICATIONS****MODEL NO.**
OBO-40016F-05**PART NAME**
DYNAMIC SPEAKER**SHEET**
1 OF 7**ALTERNATION HISTORY**

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※3	MAY,12,2006	DG0605001	E	1. Change to RoHS Type	7	習俊	K.C. Wang
						<div data-bbox="1201 575 1437 729" data-label="Text"> <p>OBO PRO.2 INC. 2006 MAY 18. 文件发行章</p> </div>	

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
E	MAY,12,2006	習俊	K.C. Wang	K.C. Wang

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Features:Conformity RoHS Directive(2002/95/EC) Requests.(※3)

1. General Specifications

Items	Spec.
Magnet	Materials NdFeB Size: ϕ 12.5X1.5 mm.
Weight	Approx 9.8 Grams
Nominal Impedance	16 Ohm \pm 15% At 1000 Hz / 1.0V
Power Rating	Normal 0.5W. Maximum 1.0 W.
Lowest Resonant Frequency	500 \pm 150 Hz.
Output Sound Pressure Level (S.P.L)	86 \pm 3dB /0.5W 0.5Meter Average at 1000,1200,1500,2000Hz Measuring device:see Item 4.(Secundum IEC-268-5 Statute)
Frequency Range	350 ~ 5,000 Hz. Average SPL-10 dB.
Distortion	5% Maximum At 1000 Hz. 0.5W.
Abnormal Sound Test	Must be Normal Tested by 2.83Volts. Sine Wave.
Polarity	Diaphragm shall move Forward when Apply a Positive DC Current to the "+" or "Marked" Terminal.
Operating Temperature	-25°C to +85°C(Ten Minutes at +120°C)
Storage Temperature	-25°C to +85°C

2. Environmental Test

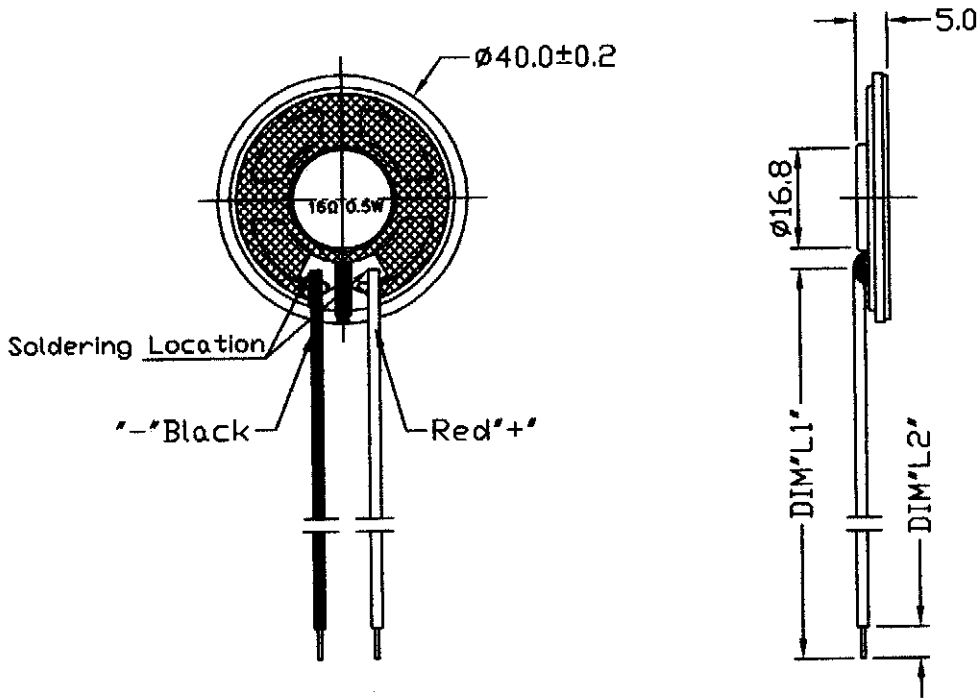
Humidity Test	High Temperature	:	+40°C \pm 3°C
	Relative Humidity	:	90% ~ 95%
	Duration	:	96 Hours
	Duration of recovery	:	6 Hours
Temperature Cycle Test	Temperature	:	+85°C \rightarrow +25°C \rightarrow -25°C \rightarrow +25°C
	Duration	:	1Hour 1Hour 1Hour 1Hour
	Cycle	:	3 Cycles
Vibration Test	Vibration 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
	Duration of Transfer Time	:	Less Than 5Minutes
Load Test	White Noise With Weighted Filter 2.83 Volts.(RSM) 100 Hrs. 20~20,000Hz Resonant Frequency.		
Drop Test	75cm Free Falling On Concrete Floor, with 10 times.		

3. Mechanical Layout And Dimensions

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3.1 Dimensions

Unit:mm Tolerance:±0.3

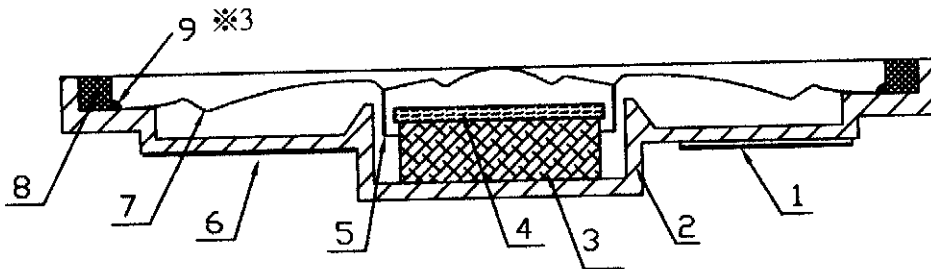


Customer	Lead Wire	Dim'L1'	Dim'L2'
Standard	UL1571#30	100±5	3±1

※3 PCB Soldering Temperature 380° Max For 3 Seconds.

3.2 Construction Diagram ※3

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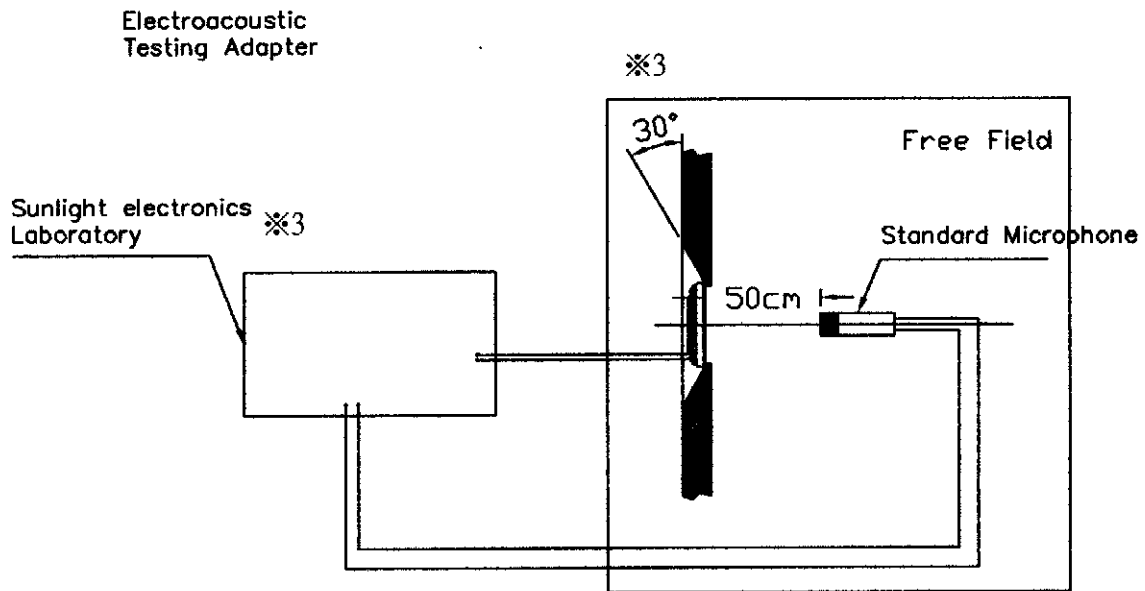


9	RED WATERPROOF GLUE	967+RED INK	
8	GASKET	PAP66	1
7	DIAPHRAGM	MYLAR(PEI)	1
6	CLOTH	CLOTH	1
5	VOICE COIL	DIA 13.28mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOKE	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	Q'TY

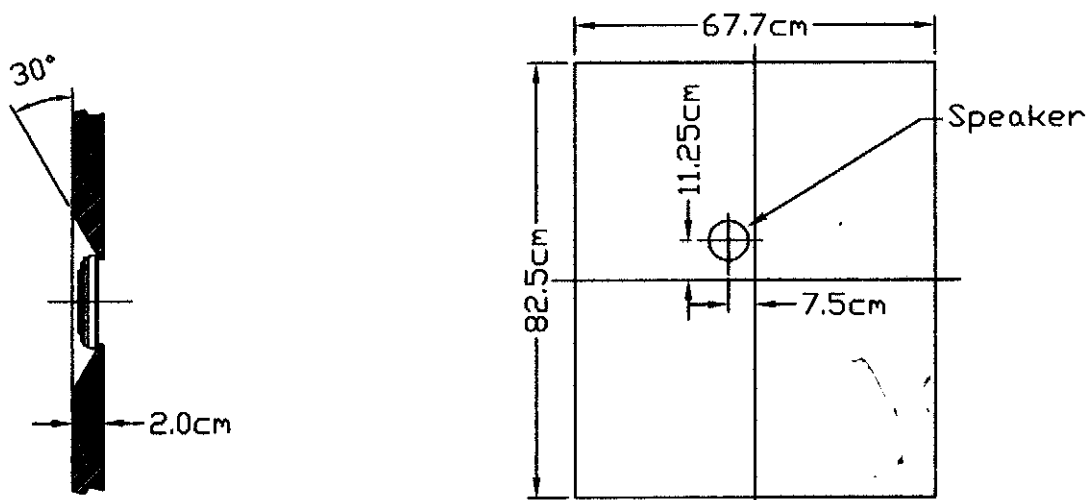
4. Test Method

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4.1 Measurement Diagram



4.2 Standard Baffle



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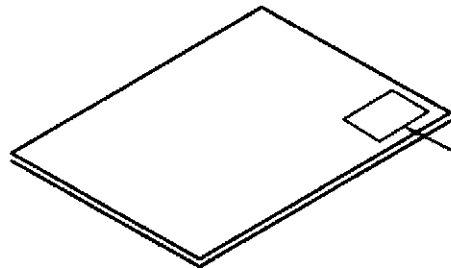
PART NAME
DYNAMIC SPEAKER

SHEET
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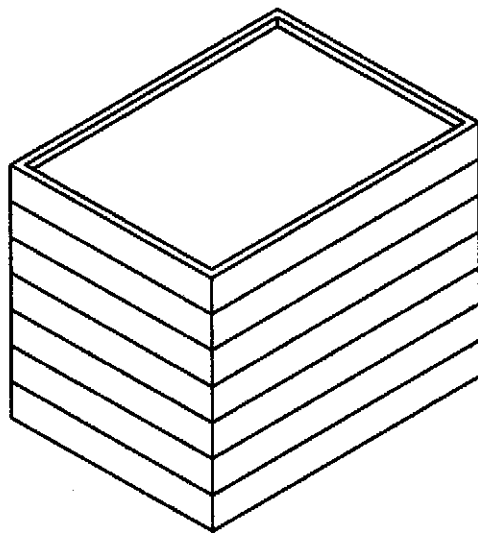
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※2 ※3 **5. Package**

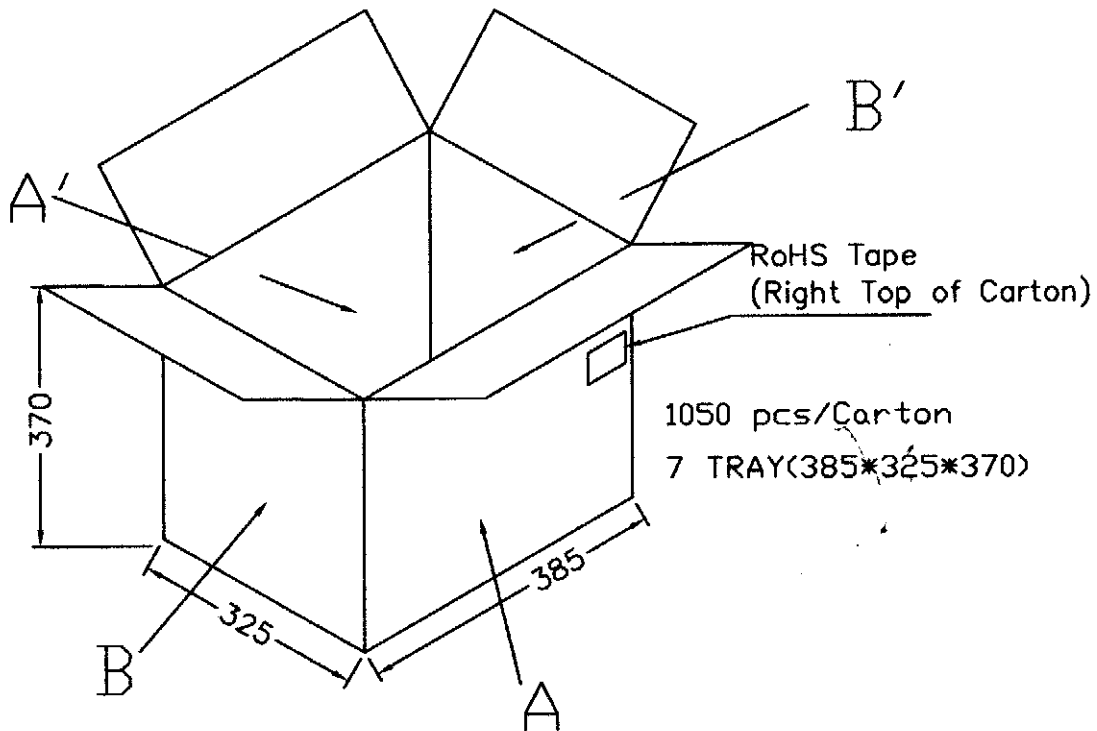
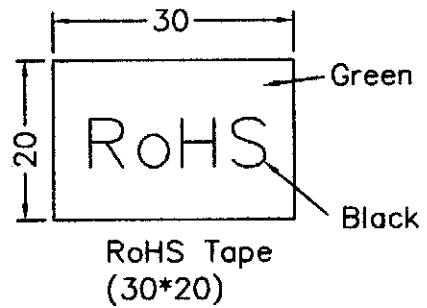
Unit:mm



RoHS Tape
(Right Down of Cover)



150pcs/TRAY

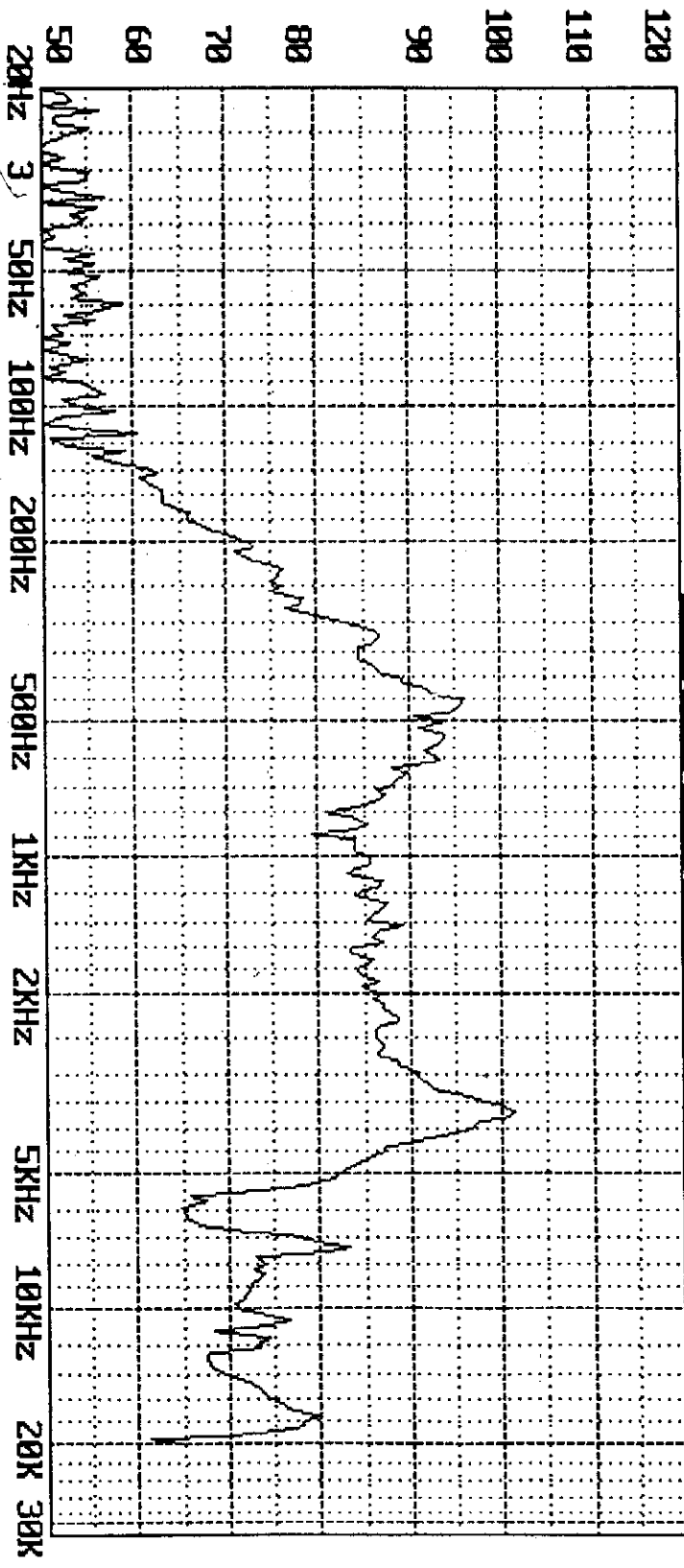


Firm: **Model:** **DATE:** 05-11-2006 **TIME:** 13:22:23
 1000Hz Sens. = 85.7dB SPL Pass **F.R.:** Pass **DCR:** 17.19R Pass
 Average SPL: 85.8dB SPL Pass (1000;1200;1500; 2000Hz) **Sweep Speed:** 1/24 Oct.

B 6.11

dB SPL

Frequency Response curve



Voltage applied for **F.R.** = 2.830V
 Measuring Distance = 0.81M

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

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

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