

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
D	SEP,15,2006	蔡愛國		

OBO Pro.2®**SPECIFICATIONS****MODEL NO.**
OBO-50008F-01**PART NAME**
DYNAMIC SPEAKER**SHEET**
2 OF 7**MODEL NO : OBO-50008F-01**

OBO PRO.2 INC.

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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 13.0 Grams
Nominal Impedance	8 Ohm $\pm 15\%$ At 800 Hz / 1.0V
Power Rating	Normal 0.25W. Maximum 0.5W.
Lowest Resonant Frequency	500 $\pm$ 150 Hz.
Output Sound Pressure Level (S.P.L)	82 $\pm$ 3dB /0.25W 0.5Meter.(Secundum IEC-268-5 statute) Average at 1000,1200,1500,2000Hz.
Frequency Range	350 ~8500 Hz. Average SPL-10 dB.
Distortion	5% Maximum At 450 Hz. 0.25W.
Abnormal Sound Test	Must be Normal Tested by 1.42Volts. Sine Wave.
Polarity	Diaphragm shall move 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	High 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 Duration of Transfer Time : Less Than 5Minutes
Load Test	White Noise With Weighted Filter 1.42 Volts.(RMS) 100 Hrs. 20~20,000Hz Resonant Frequency.
Drop Test	70cm Free Falling On Concrete Floor, with 10 times.

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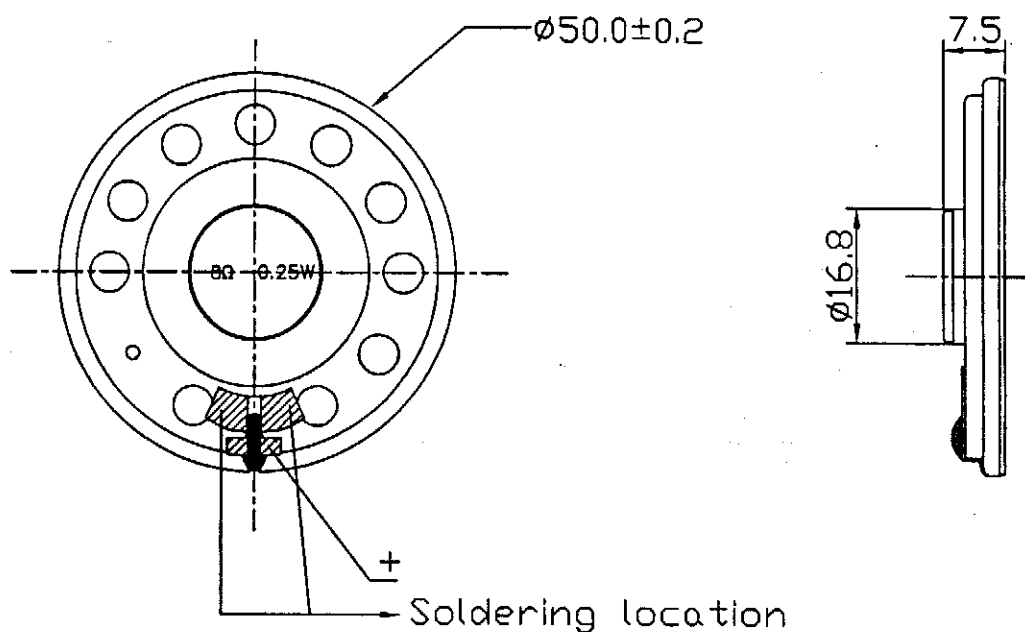
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3. Mechanical Layout And Dimensions

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3.1 Dimensions

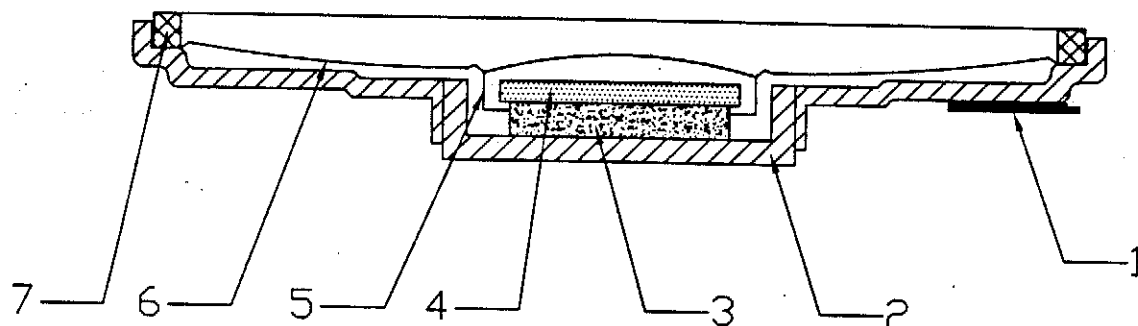
Unit:mm Tolerance:±0.3



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

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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

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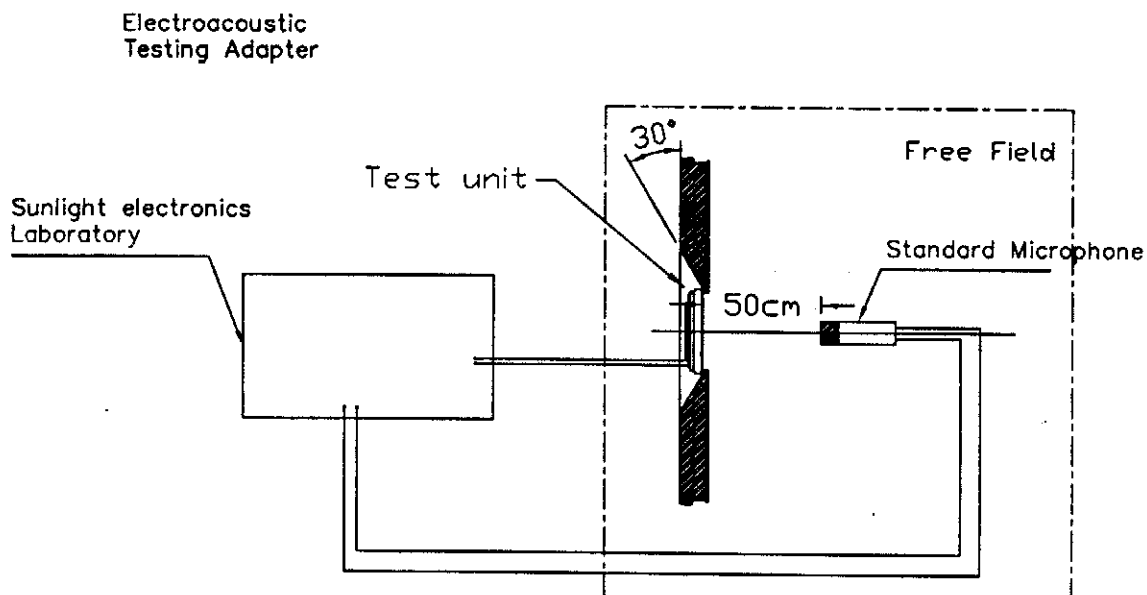
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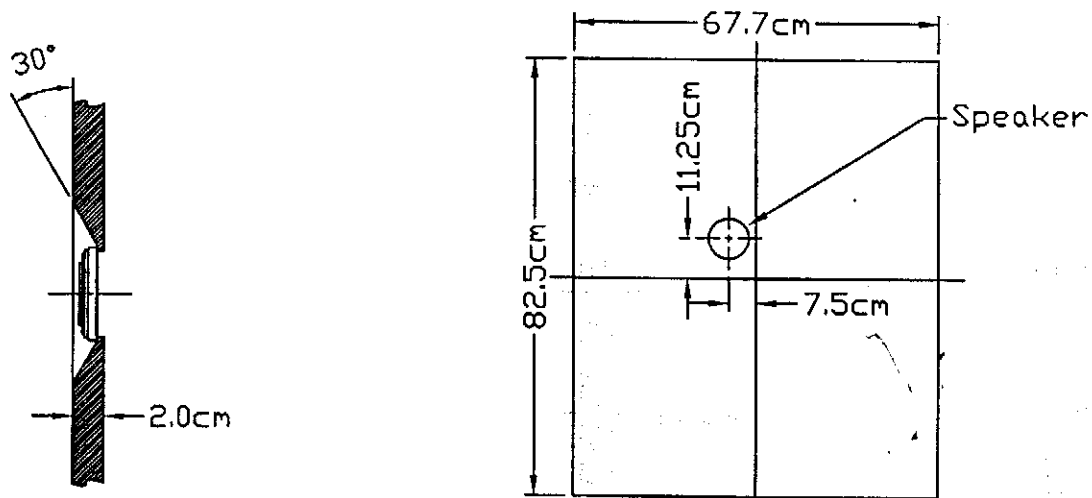
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4. Test Method

4.1 Measurement Diagram



4.2 Standard Baffle



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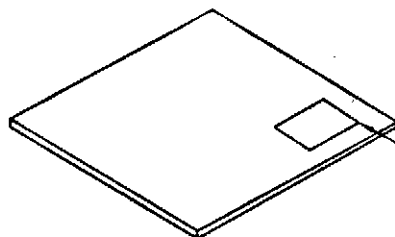
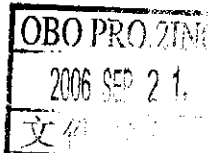
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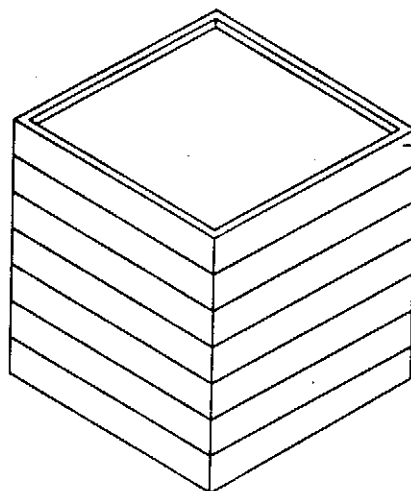
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※15. Package

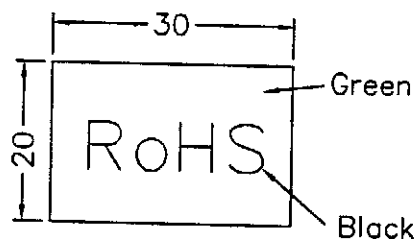
Unit:mm



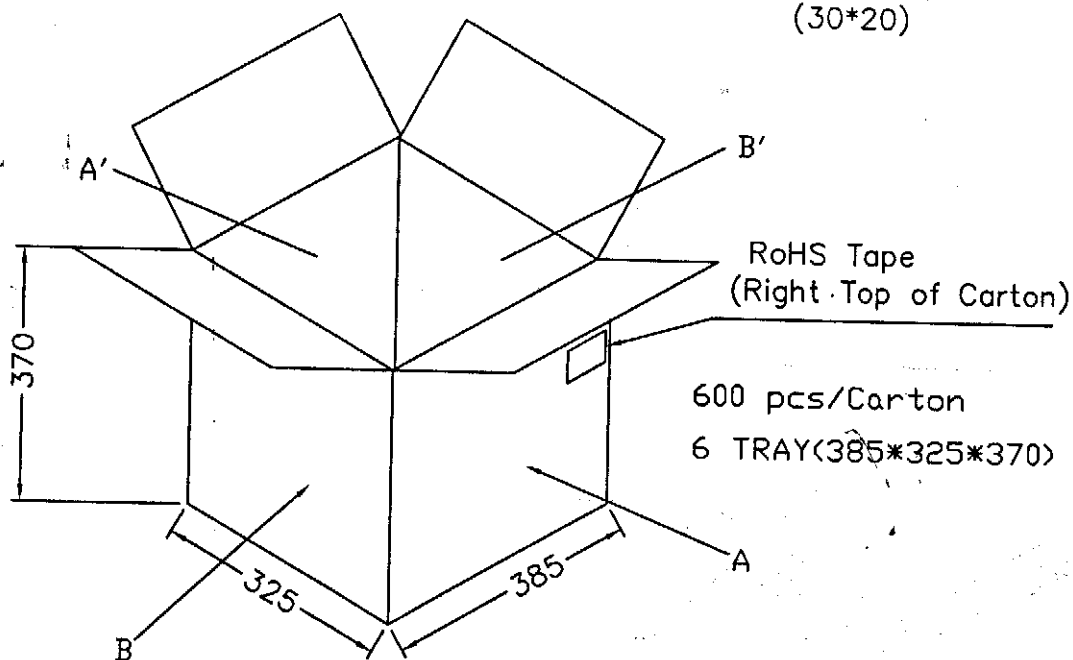
RoHS Tape
(Right Down of Cover)



100pcs/TRAY



RoHS Tape
(30*20)

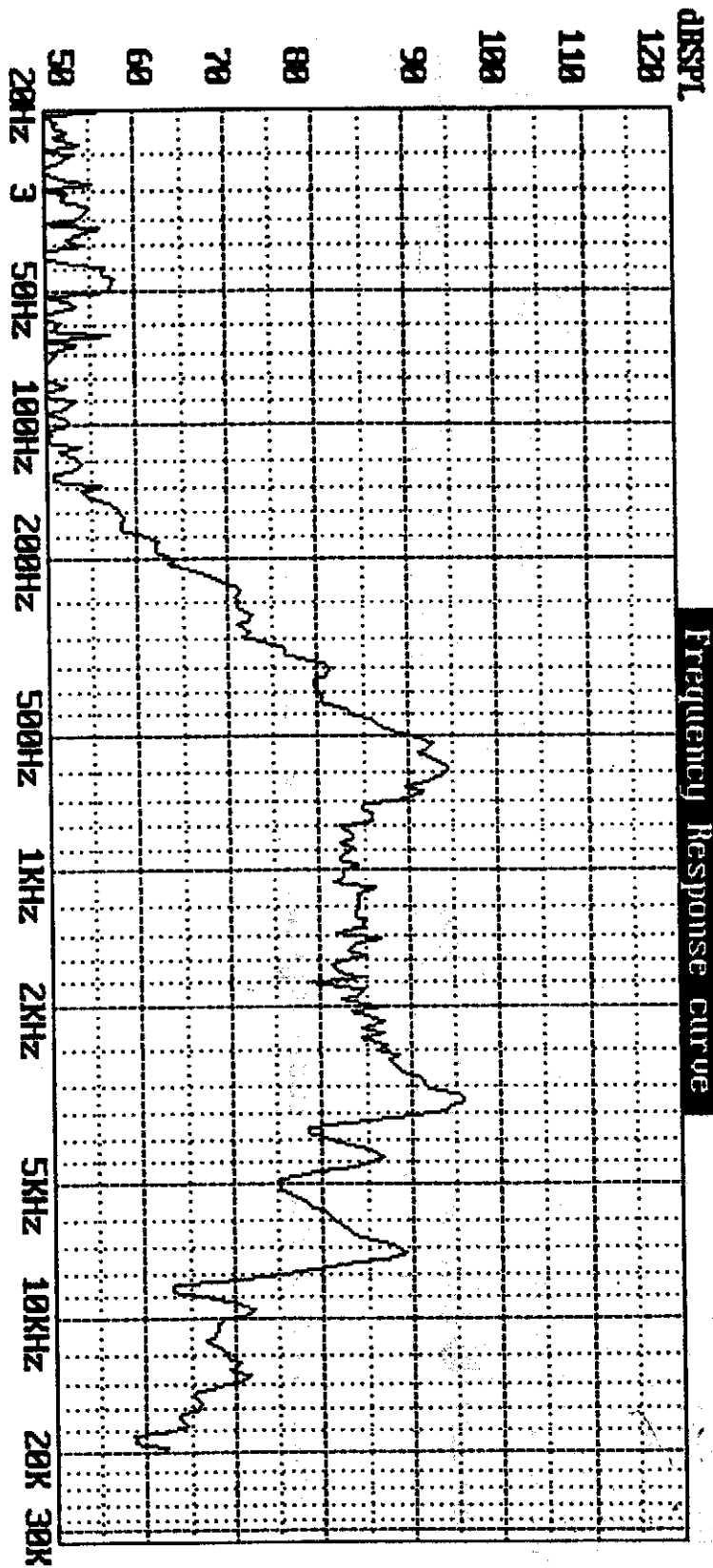


RoHS Tape
(Right Top of Carton)

600 pcs/Carton
6 TRAY(385*325*370)

Firm: OBO Model: OBO-5000BF-01 DATE: 09-15-2006 TIME: 15:01:26
1000Hz Sens. = 82.7dBSPL Pass F.R.: Pass DCR: 7.96d Pass
Average SPL: 84.2dBSPL Pass (1000:1200:1500: 2000Hz) Sweep Speed: 1/24 Oct.

B 6.11



Voltage applied for F.R. = 1.420V Start F. = 20Hz Stop F. = 20000Hz
Measuring Distance = 0.50m

Mfg.:

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