

OBO Pro.2

SPECIFICATIONS

MODEL NO
OBO-50050G-01

PART NAME
DYNAMIC SPEAKER

OBO SPEET INC.

1 OF 5
2011.12.29

ALTERNATION HISTORY

文件发行章

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	JUN.16,2006	DG0606013	D	Change to ROHS Type	6	蔡愛國	謝明福
※2	SEP,05,2009	---	E	Change Packing	6	蔡愛國	謝明福
※3	DEC.23,2011	DG1112006	F	Change Materials	5	陆志伟	Jogin

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
F	DEC.23,2011	陆志伟	王志伟	Jogin

MODEL NO : OBO-50050G-01

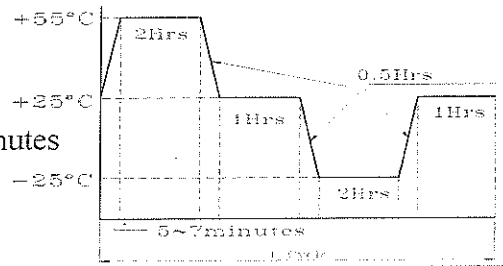
※1 Features: Conformity RoHS Directive(2002/95/EC) Requests.

1. General Specifications

Items	Spec.
Magnet	Materials Rare Earth Size: $\Phi 12.5 \times 1.8 \text{mm}$
Weight	Approx 11.0 Grams
Nominal Impedance	50 Ohm $\pm 15\%$
Power Rating	Normal 0.2W. Maximum 0.5W.
Lowest Resonant Frequency	400 $\pm 150 \text{Hz}$.
Output Sound Pressure Level (S.P.L)	82 $\pm 3 \text{dB}$ /0.2W/0.5Meter Average at 800,1000,1200,1500 Hz.
Frequency Range	250 ~ 11,000Hz. Average SPL -10dB.
Distortion	5% Maximum At 1000Hz 0.2W
Abnormal Sound Test	Must be Normal Tested by 3.17Volts. 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	Temperature: +40°C $\pm 3^\circ\text{C}$ Relative Humidity: 90% ~ 95% Duration: 96 Hours Duration of recovery: 6 Hours
Temperature Cycle Test	High Temperature: +55°C $\pm 3^\circ\text{C}$ Low Temperature: -25°C $\pm 3^\circ\text{C}$ Duration of Exposure: 1Hour Duration of Transfer Time: Less Than 5 to 7Minutes Cycle: 5 Cycles Duration of recovery: 1 Hours
Vibration Test	Vibration Direction: 3 axes Mounting: Unit Shall Be Rigidly Restrained On The Table Frequency: 10~55Hz Amplitude: 1.5m/m Endurance: 2 Hour in Each Plane Duration of Transfer Time: Less Than 5Minutes
Load Test	White Noise With Weighted Filter 3.17Volts.(RMS) 24 Hrs. 20~20,000Hz Resonant Frequency.
Drop Test	Drop the speakers contained in normal box onto the board 40mm thick 10 time from the height 75cm .

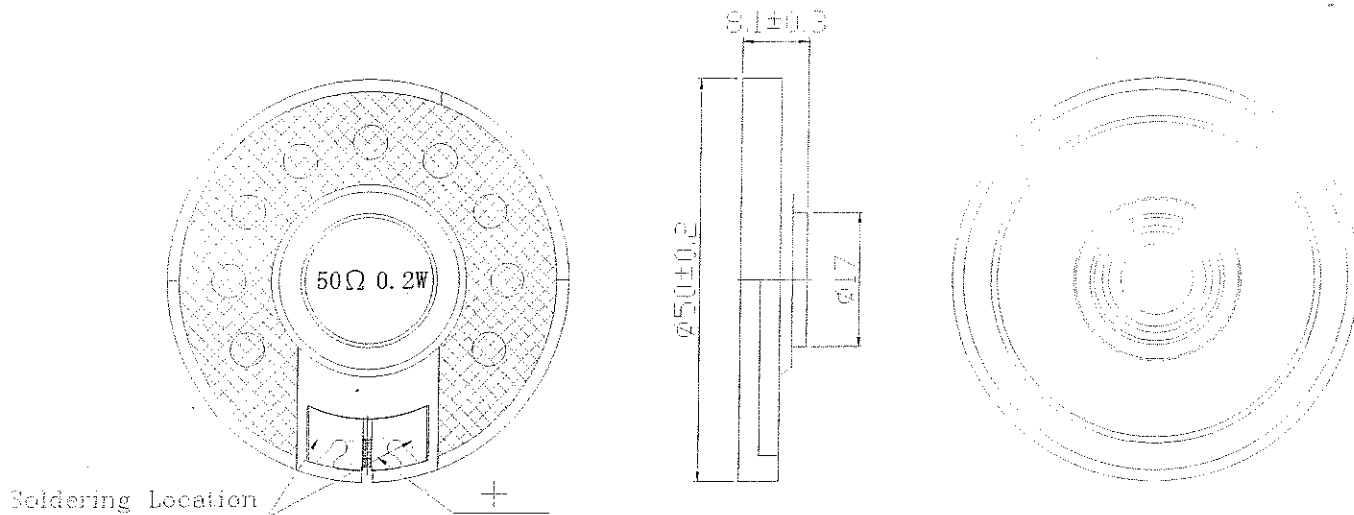


3. Mechanical Layout And Dimensions

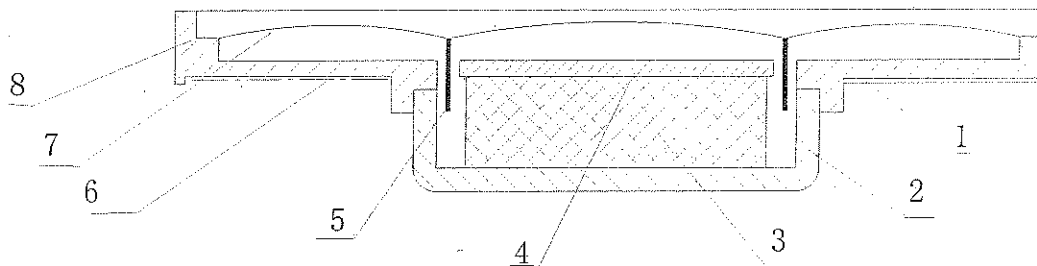
3.1 Dimensions

※3

Unit: mm Tol: ±0.5



3.2 Construction Diagram

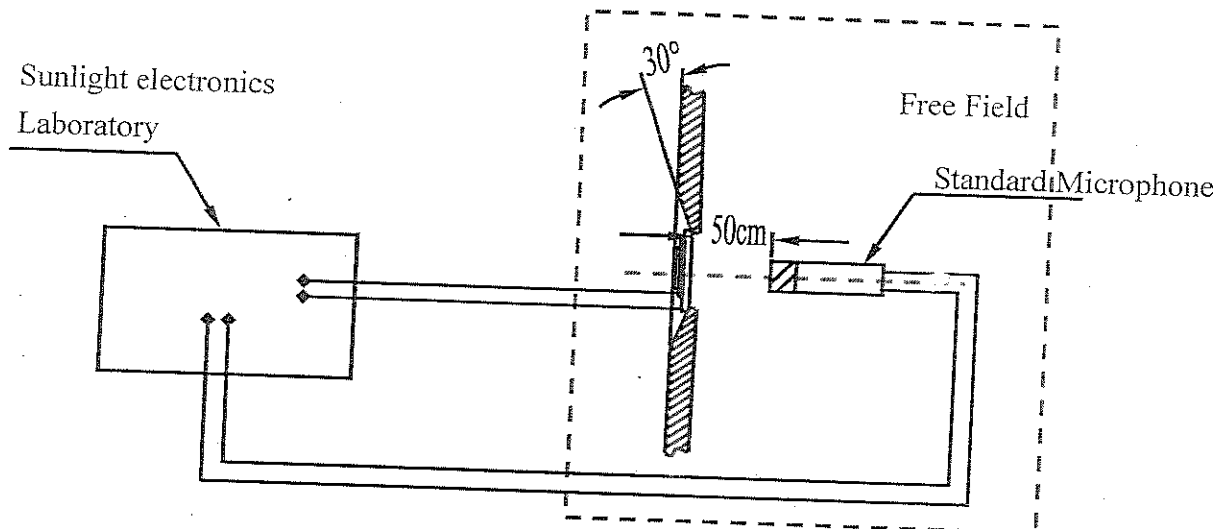


10			
9			
8	PLASTICS CASE	ABS	1
7	DIAPHRAGM	MYLAR	1
6	CLOTH	CLOTH	1
5	VOICE COIL	DIA 13.4mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOK	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	QTY

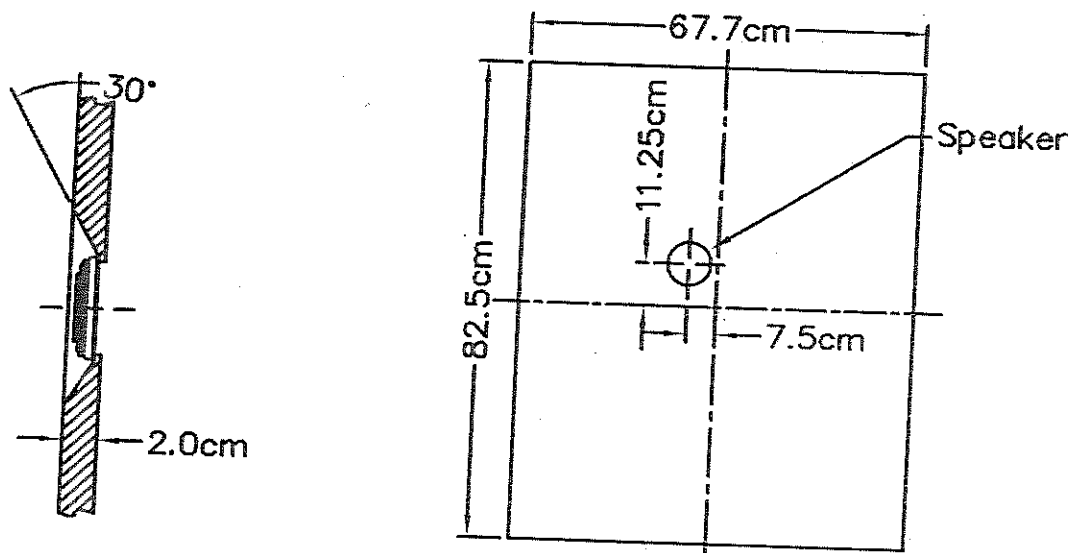
4. Test Method

4.1 Measurement Diagram

Electroacoustic
Testing Adapter



4.2 Standard Baffle



OBO Pro.2

SPECIFICATIONS

MODEL NO
OBO-50050G-01

PART NAME
DYNAMIC SPEAKER

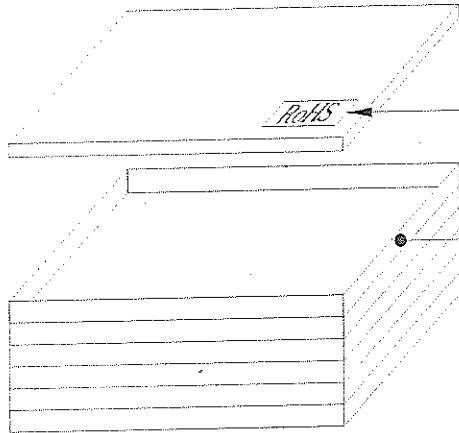
OBSHEET INC.

5 OF 5
2011DEC 29

文件发行章

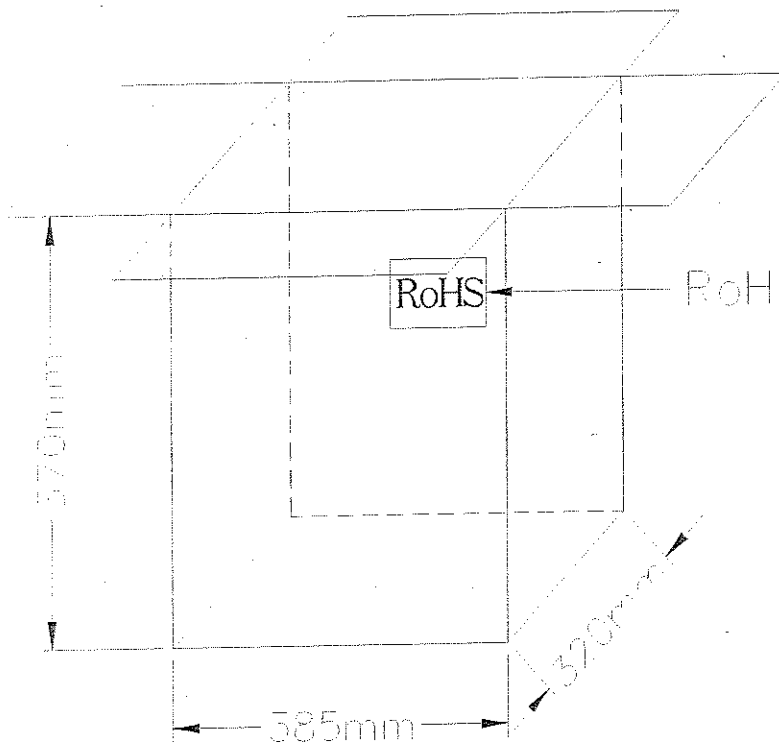
5.Packing

※2

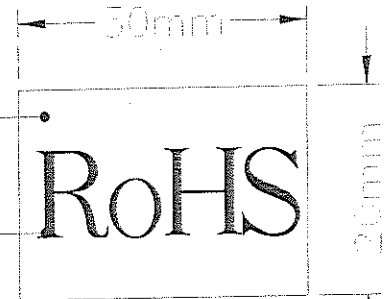


RoHS Type

100Pcs/Tray



RoHS Type



RoHS Type
(30*20)

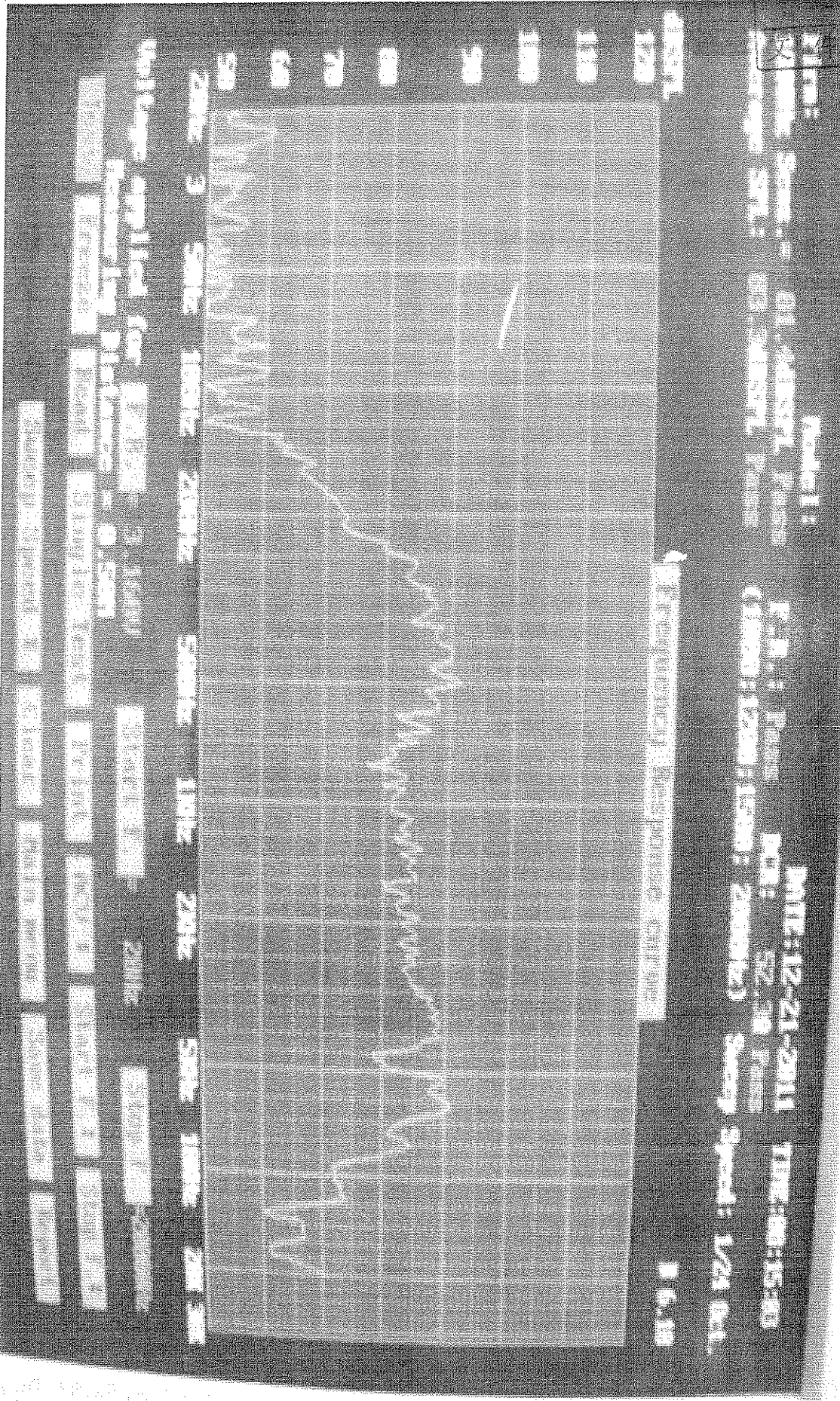
600Pcs/Carton

6Tray(385*320*370mm)

OBO PRO. 2INC

2011 DEC 29

发行章



DATE: 12-21-2011 TIME: 08:15:40
 FILE: 12-21-2011
 (SHEET: 12/21) (PAGE: 1/1)
 SCALE: 1:1
 UNIT: MM
 SHEET: 1/1
 DATE: 12-21-2011 TIME: 08:15:40
 FILE: 12-21-2011
 (SHEET: 12/21) (PAGE: 1/1)
 SCALE: 1:1
 UNIT: MM
 SHEET: 1/1

1.6.10