



SPECIFICATIONS

MODEL NO
OBO-40008F-22

PART NAME
DYNAMIC SPEAKER

SHEET
OBO PROF 2 INC.

2011 SEP 05

ALTERNATION HISTORY

Marking	Date	ECN NO.	REV.	Description	Page	文	行
						PREPARED BY	APPROVED BY
❌ I	FEB.08,11	DG1102001	D	Carton ring to be changed to ABS plastic	6	李家芹	谢明福
❌ 2	SEP.01,11	DG1108009	E	1. Improve Frequency curve with peak at ~ 2.2Khz and distortion 5% Max at 1K~3KHz/1.0W	6	陆志眉	Joson

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
E	SEP.01.2011	陆志眉	王宏伟	Joson 9/2



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

1. General Specifications

Items	Spec.
Magnet	Materials NDFEB Size:Φ12.5*1.5mm
Weight	Approx 9.6Gram
Nominal Impedance	8 Ohm±15% At 1000Hz/1.0V
Power Rating	Normal 1.0W. Maximum 2.0W.
Lowest Resond Frequency	650±150Hz
Output Sound Pressure Level (S.P.L)	89 ±3 dB/1.0W/0.5M Average at 1000,1200,1500,2000Hz.
Frequency Response Range	350~4,500Hz SPL-10dB
※2 Distortion	5% Max at 1K~3KHz/1.0W
Abnormal Sound Test	Must be Normal Tested by 2.83Volts.
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	Temperature:	+40°C±3°C
	Relative Humidity:	90% ~ 95%
	Duration:	96 Hours
	Duration of recovery:	6 Hours
Temperature Cycle Test	Low Temperature:	-25°C±3°C
	High Temperature:	+85°C±3°C
	Number of Cycle:	3Cycles
	Duration of Transfer Time	Less Than 1 Hours.
Load Test	White Noise With Weighted Filter 2.83Volts.(RSM) 96 Hrs 20~20,000Hz Resonant Fequency.	
Drop Test	75cm Free Falling On Counter Floor,10 Times.	
Vibration Test	Vibration Direction:	3 axes
	Frequency:	1,000 Cycle/Minute
	Amplitude:	1.5m/m
	Endurance:	1 Hour in Each Plane
	Duration of Transfer Time:	Less Than 5 Minutes

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3. Mechanical Layout And Dimensions

※1

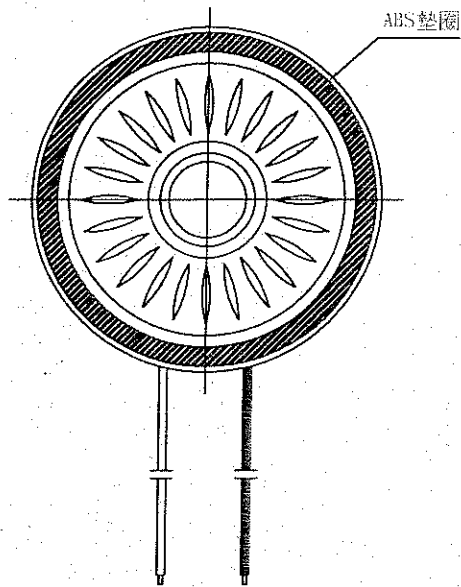
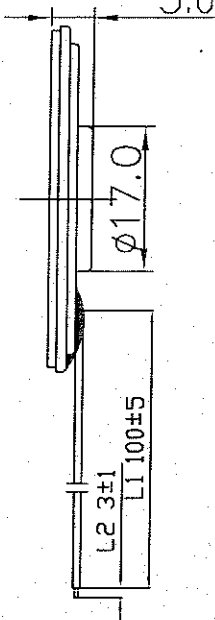
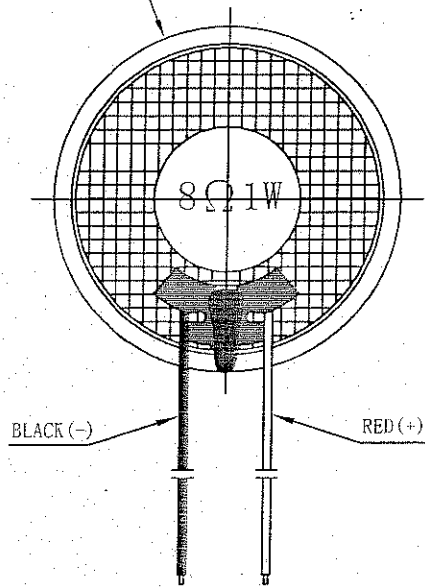
3.1 Dimensions

Unit: mm

Tolerance: ±0.3

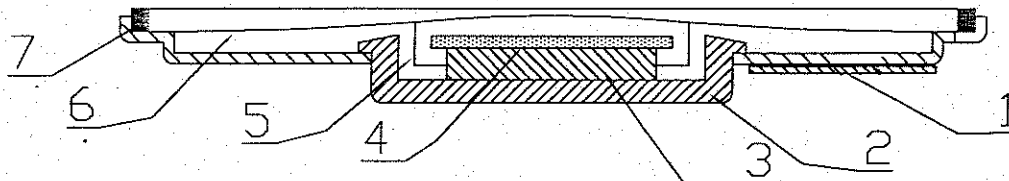
∅40.0±0.2

5.0



Lead Wire : UL1571AWG30

3.2 Speaker Construction

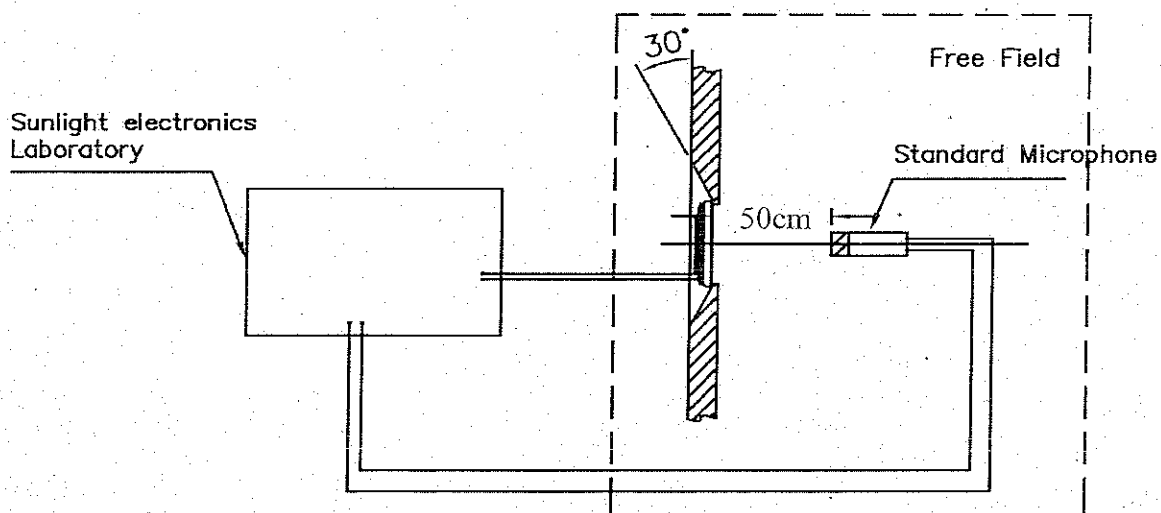


	GASKET	ABS	
	DIAPHRAGM	MYLAR	
	VOICE COIL	DIA 13.25mm	
	WASHER	SPCC	
	MAGNET	NdFeB	
	YOKE	SPCC	
	TERMINAL	P.C.B	
NO	PART NAME	MATERIAL	Q'TY

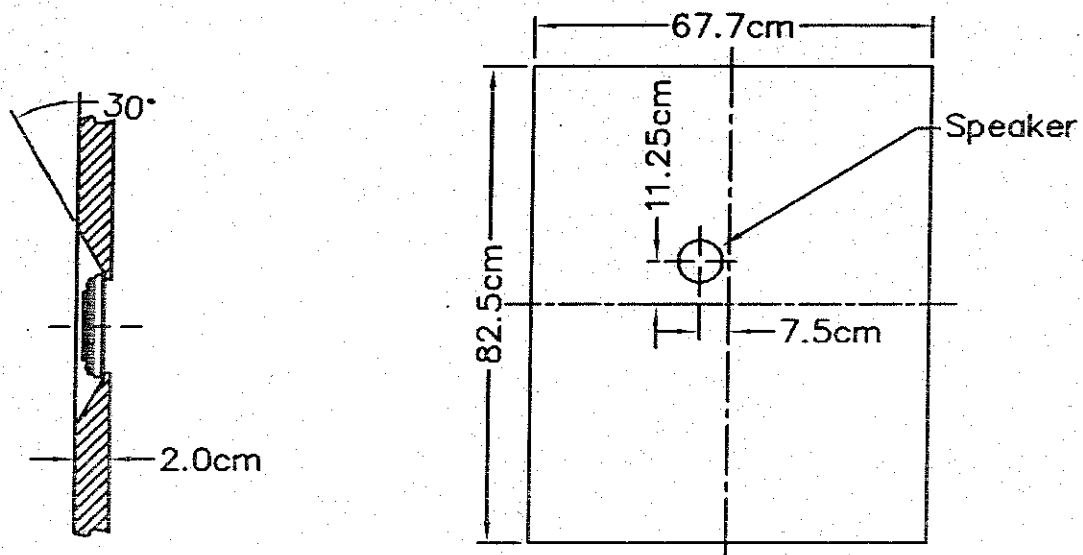
4. Test Method

4.1 Measurement Diagram

Electroacoustic
Testing Adapter



4.2 Standard Baffle



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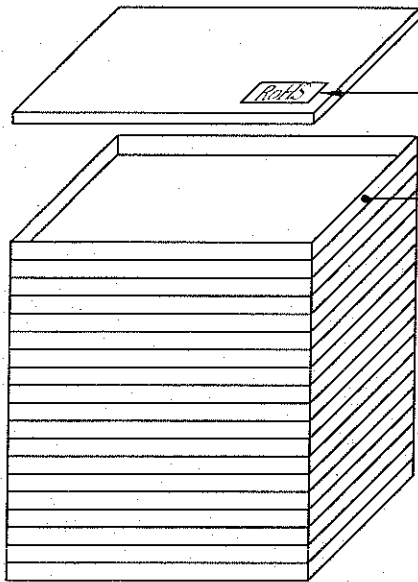
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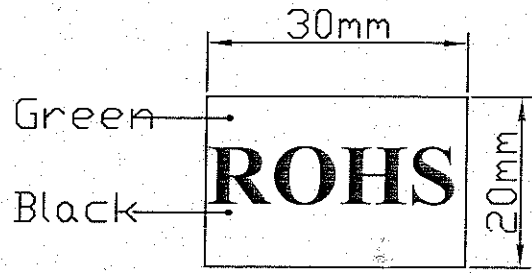
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5.Packing.

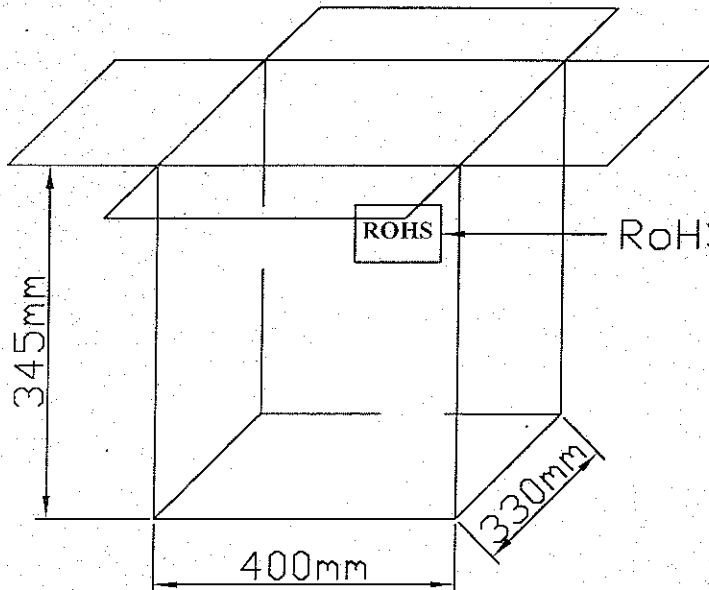


RoHS Type

45Pcs/Tray



RoHS Type
(30*20)



RoHS Type

900Pcs/Carton
20Tray(400*330*345mm)



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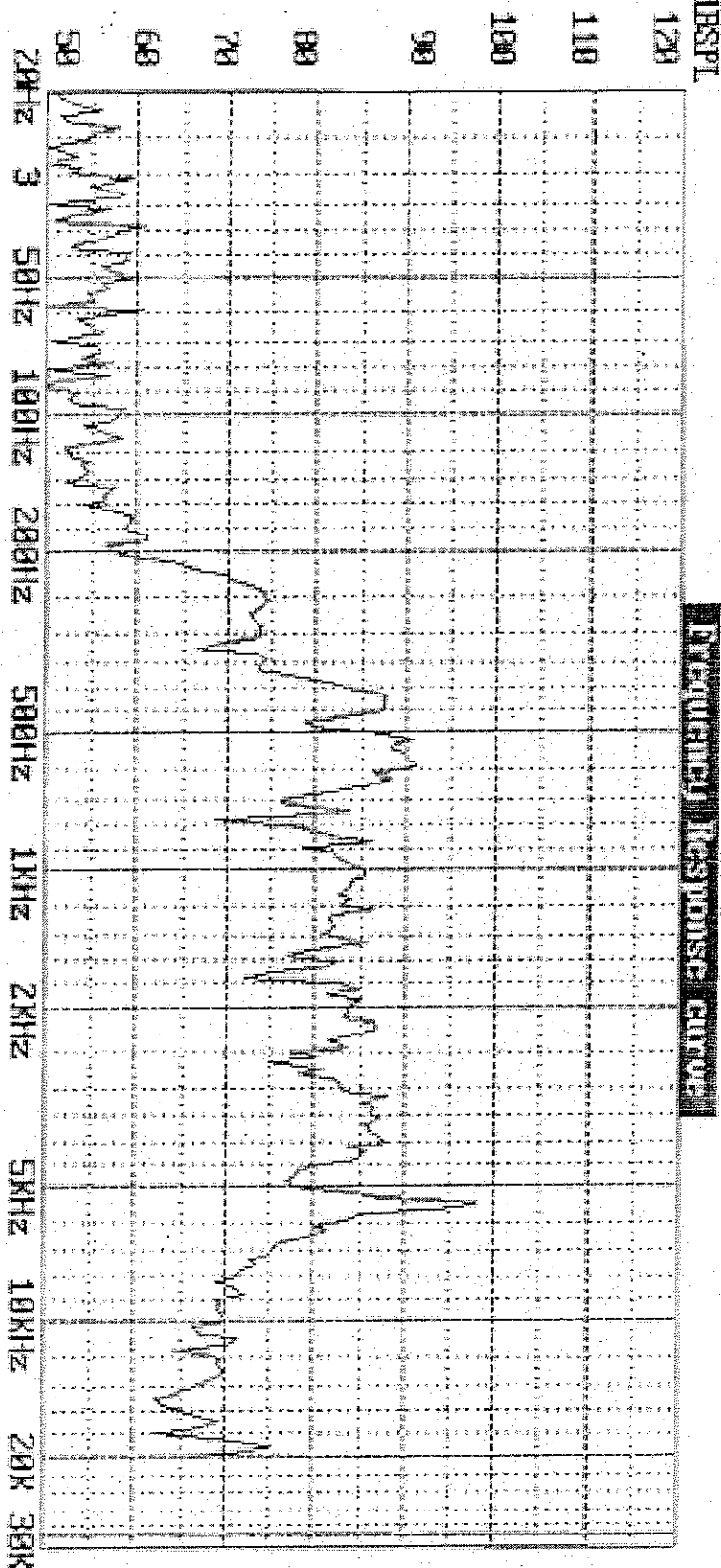
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6.Frequency Response Curve ※2

Firm: Model: DATE: 08-31-2011 TIME: 20:10:12
 1000Hz Sens. = 65.4dB SPL Pass P.R.: Pass DCR: 15.1 dB Pass
 Average SPL: 87.7dB SPL Pass (1000:1200:1500: 2000Hz) Sweep Speed: 1/24 Oct.
 B 6.18



Voltage applied for T.R. = 5.400V
 Measuring Distance = 0.50M
 Start F. = 20Hz
 Stop F. = 20000Hz

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