



SPECIFICATIONS

MODEL NO
OBO-40050F-01

PART NAME
DYNAMIC SPEAKER

SHEET
2 OF 6

MODEL NO : OBO-40050F-01

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

1. General Specifications

Items	Spec.
Magnet	Materials NdFeB
Weight	Approx 9.2 Grams.
Nominal Impedance	50 Ohm±15% At 800 Hz /1.0V
Power Rating	Normal 0.2W. Maximum 0.5W.
Lowest Resonant Frequency	530±20%Hz.
Output Sound Pressure Level (S.P.L)	80±3dB /0.2W/0.5Meter/ (Secundum IEC-268-5 Statute) Average at 1000,1200,1500,2000Hz
Frequency Range	320 ~ 6,000 Hz. Average SPL -10dB.
Distortion	5% Maximum At 700Hz/0.2W
Abnormal Sound Test	Must be Normal Tested by 3.16Volts. Sine Wave.
Polarity	Diaphragm shall move Forward when Apply a Positive DC Current to end of the red line(Polarity “+”).
Operating Temperature	-25°C to +50°C
Storage Temperature	-25°C to +55°C

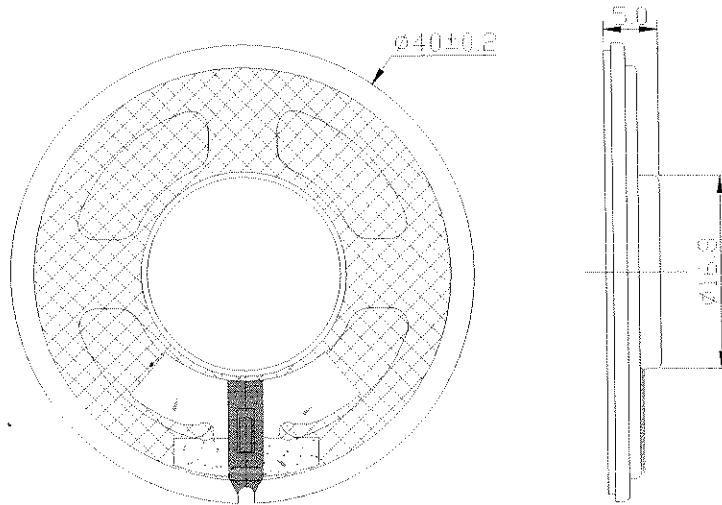
2. Environmental Test

Humidity Test	Temperature:	+40°C±3°C
	Relative Humidity:	90% ~ 95%
	Duration:	96 Hours
	Duration of recovery:	6 Hours
Temperature Cycle Test	Temperature:	+55°C → +25°C → -25°C → +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 3.16 Volts.(RMS) 96 Hrs. 20~20,000Hz Resonant Frequency.	
Drop Test	75cm Free Falling On Counter Floor, with 10 times.	

3. Mechanical Layout And Dimensions

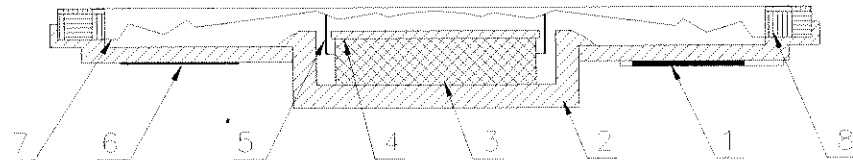
3.1 Dimensions

Unit: mm Tol:±0.5



Soldering Location

3.2 Construction Diagram

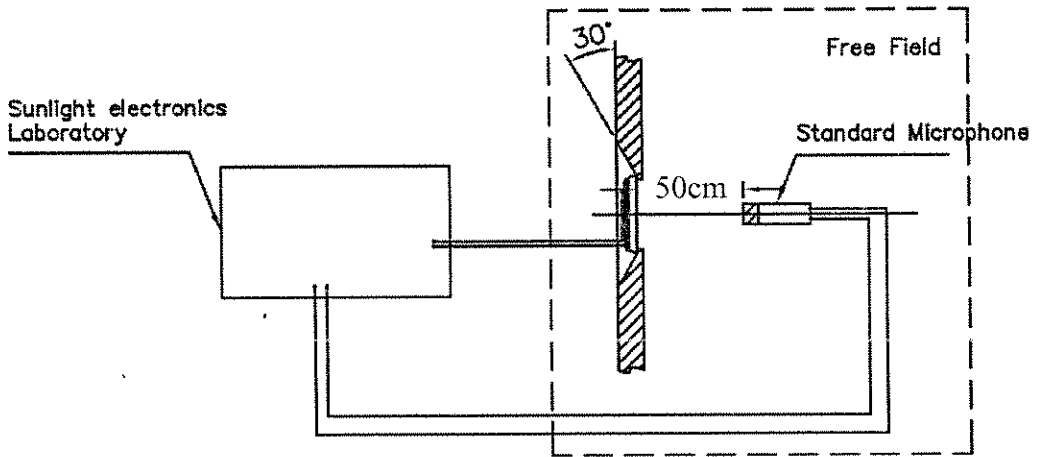


8	CASKET	ABS	1
7	DIAPHRAGM	MYLAR	1
6	CLOTH	CLOTH	1
5	VOICE COIL	DIA 13.4mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOKE	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	Q'TY

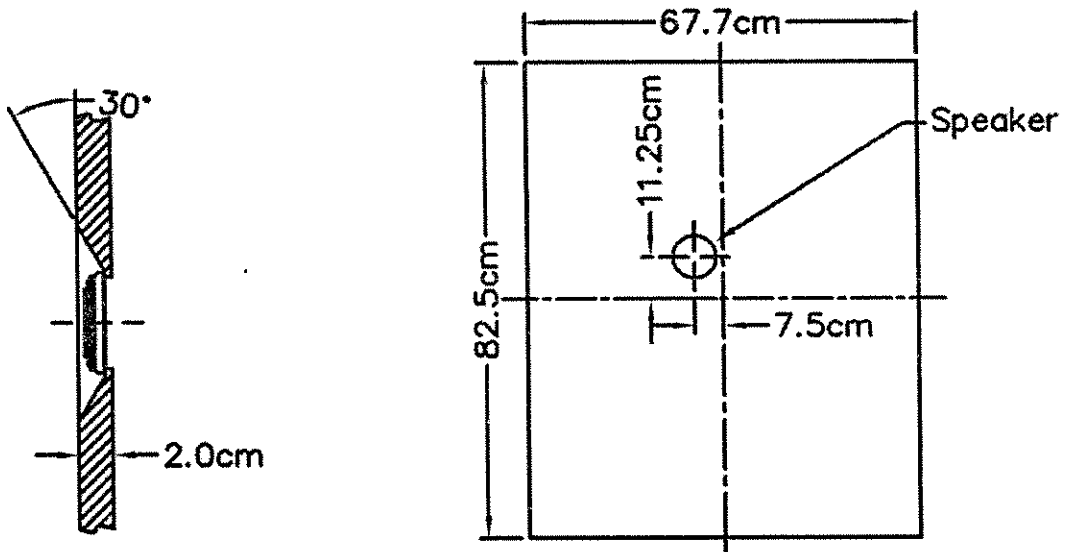
4. Test Method

4.1 Measurement Diagram

Electroacoustic
Testing Adapter

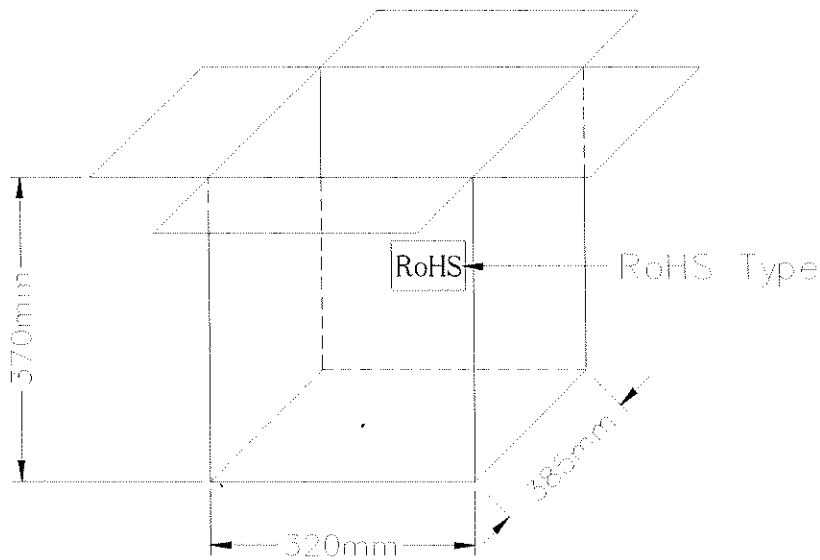
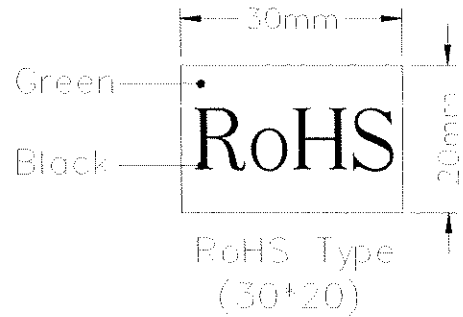
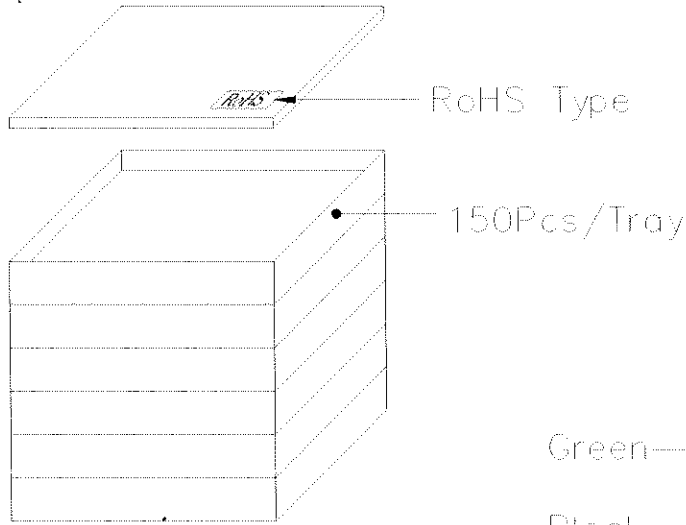


4.2 Standare Baffle



5.Picking

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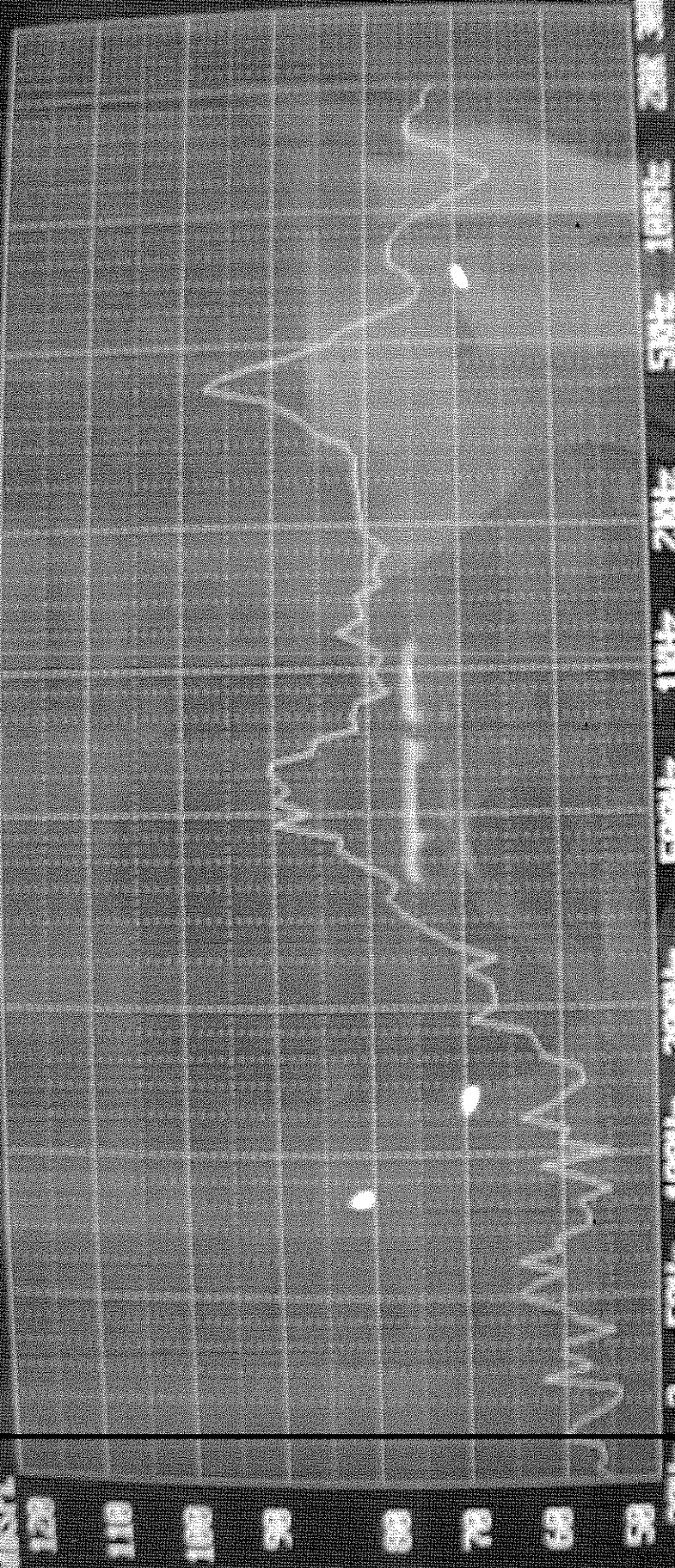


1050Pcs/Carton
7Tray(385*320*370mm)

Model: DATE: 08-26-2009 TIME: 12:58:39
 F.R.: Pass DCN: 58.79 Pass
 (1000:1200:1500: 2000Hz) Sweep Speed: 1/12 Oct.

B 6.11

Frequency Response curve



Voltage applied for
 Measuring Distance =