



SPECIFICATIONS

MODEL NO
OBO-23032F-0301

PART NAME
DYNAMIC SPEAKER

SHEET
2 OF 6

MODEL NO : OBO-23032F-0301

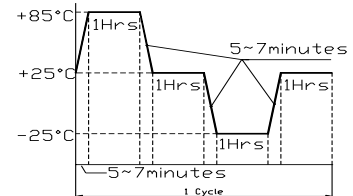
Features : Conformity ROHS Directive(2002/95/EC) Requests.

1. General Specifications

Items	Spec.
Magnet	Materials NdFeB Size: $\Phi 8.0 \times 1.5 \text{mm}$
Weight	Approx 3.5 Grams ※1 ※2
Nominal Impedance	32 Ohm $\pm 15\%$ At 1400Hz /1.0V
Power Rating	Normal 0.2W. Maximum 0.5W.
Lowest Resonant Frequency	780 ± 150 Hz.
Output Sound Pressure Level (S.P.L)	81 ± 3 dB /0.2W/0.5Meter Average at 1000,1200,1500,2000Hz.
Frequency Range	500 ~5,000 Hz. Average SPL -10dB.
Distortion	5% Maximum At 2400Hz 0.2W
Abnormal Sound Test	Must be Normal Tested by 2.53Volts. Sine Wave
Polarity	Diaphragm shall move Forward when Apply a Positive DC Current to the "+" or "Marked" Terminal.
Operating Temperature	-25 $^{\circ}\text{C}$ to +80 $^{\circ}\text{C}$
Storage Temperature	-25 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ ten minutes at 120 $^{\circ}\text{C}$

2. Environmental Test

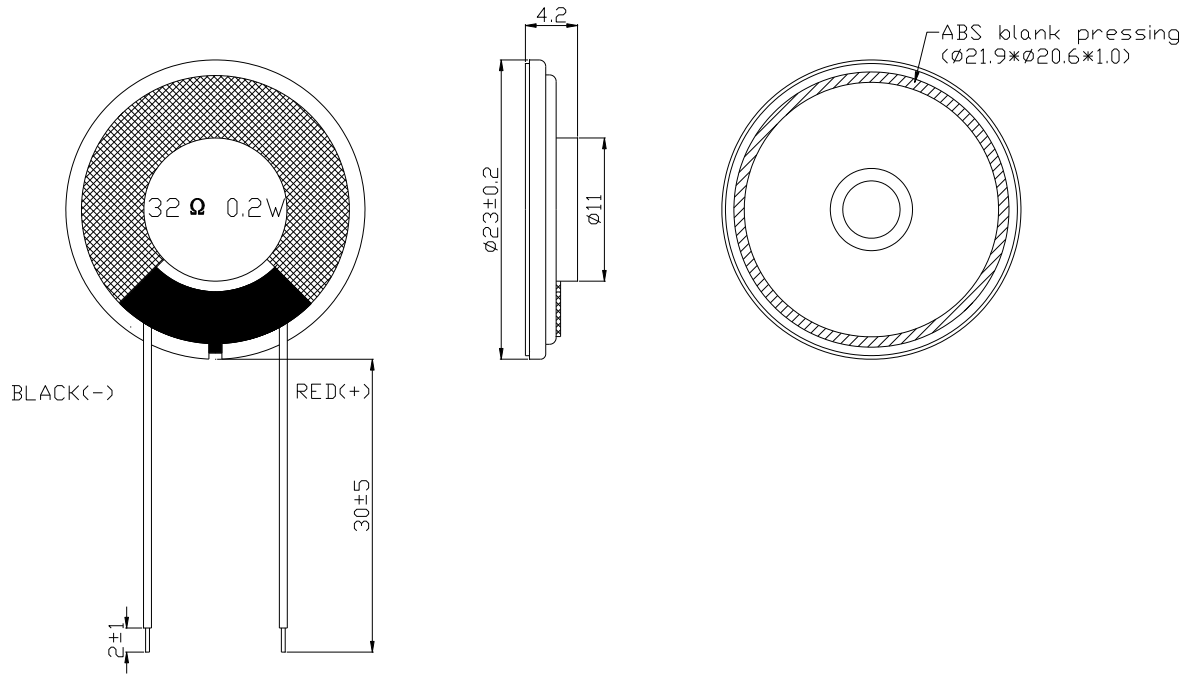
Humidity Test	Temperature: +40 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Relative Humidity: 90% ~ 95% Duration: 96 Hours Duration of recovery: 6 Hours
Temperature Cycle Test	Low Temperature: -25 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ High Temperature: +85 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration of recovery: 1 Hours Duration of Transfer Time: Less Than 5 to 7Minutes Duration of Exposure : 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 2.53 Volts.(RMS) 96 Hrs. 20~20,000Hz Resonant Frequency.
Drop Test	75cm Free Falling On Counter Floor, with 10 times.



3. Mechanical Layout And Dimension

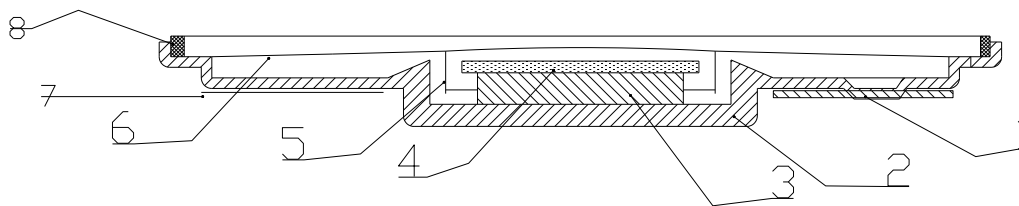
3.1 Dimension.

Unit: mm Tol: ±0.3



Lead Wire : UL1571AWG30

3.2 Speaker Construction.

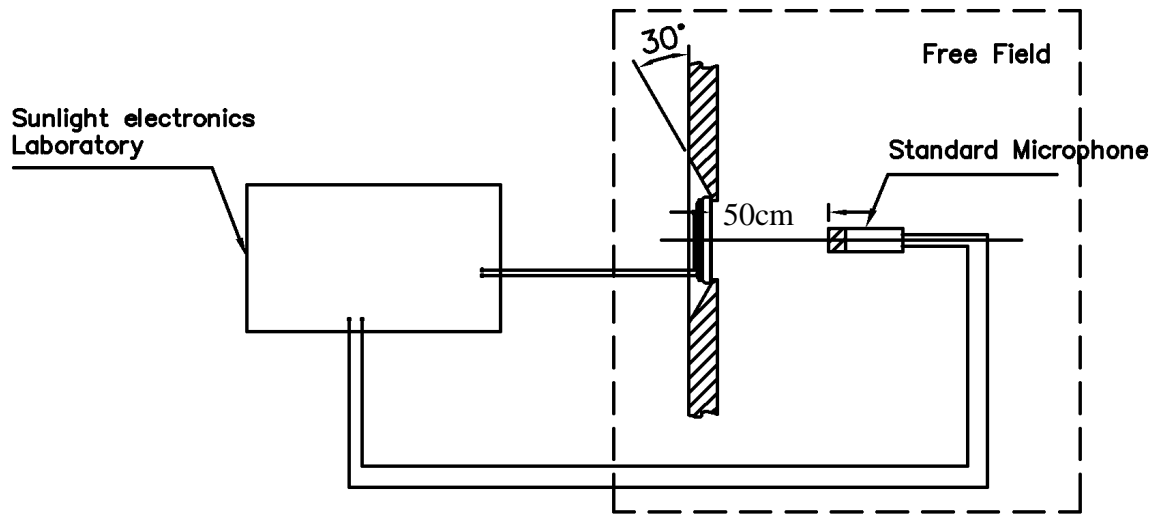


10			
9			
8	GASKET	ABS	1
7	CLOTH	CLOTH	1
6	DIAPHRAGM	MYLAR PEI	1
5	VOICE COIL	DIA 8.8mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOKER	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	Q'TY

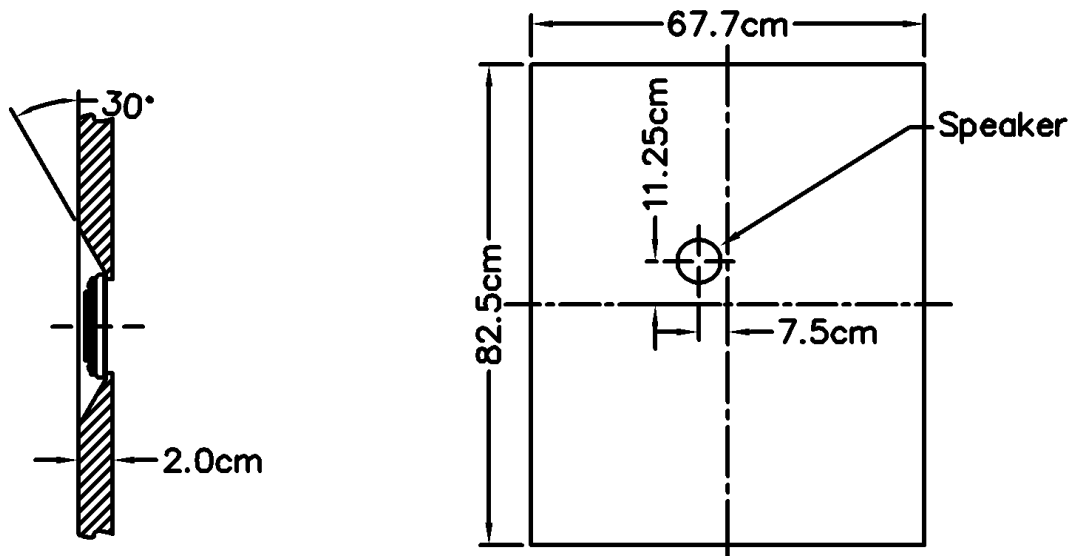
4. Test Method

4.1 Measurement Diagram

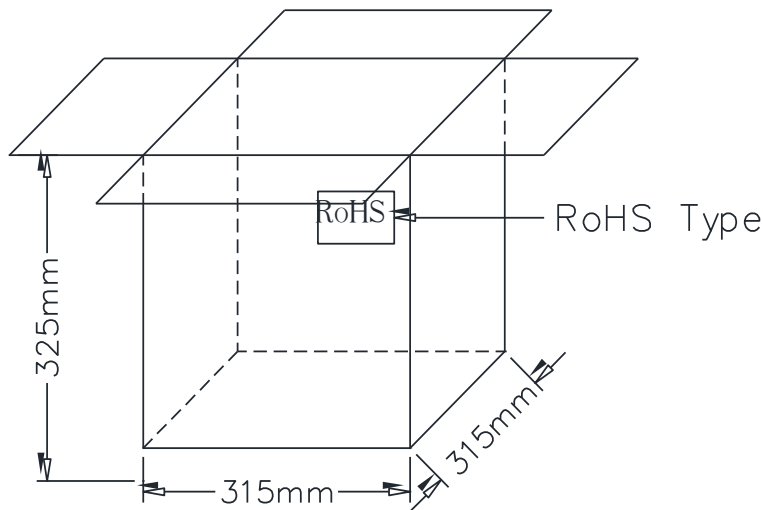
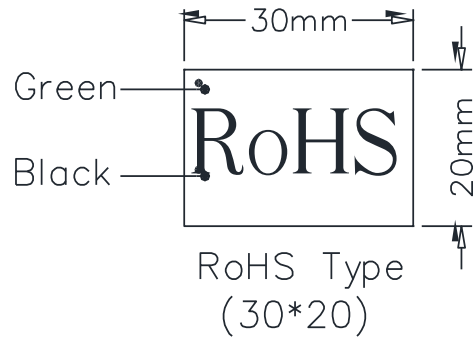
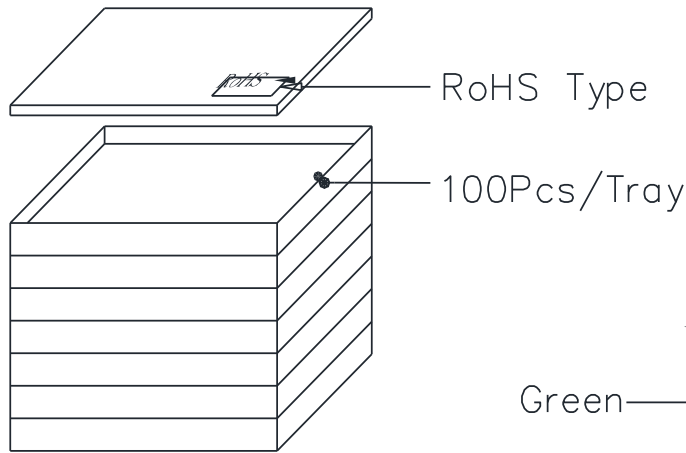
Electroacoustic
Testing Adapter



4.2 Standard Baffle



5.PACKING



2000Pcs/Carton
20Tray(315*315*325mm)



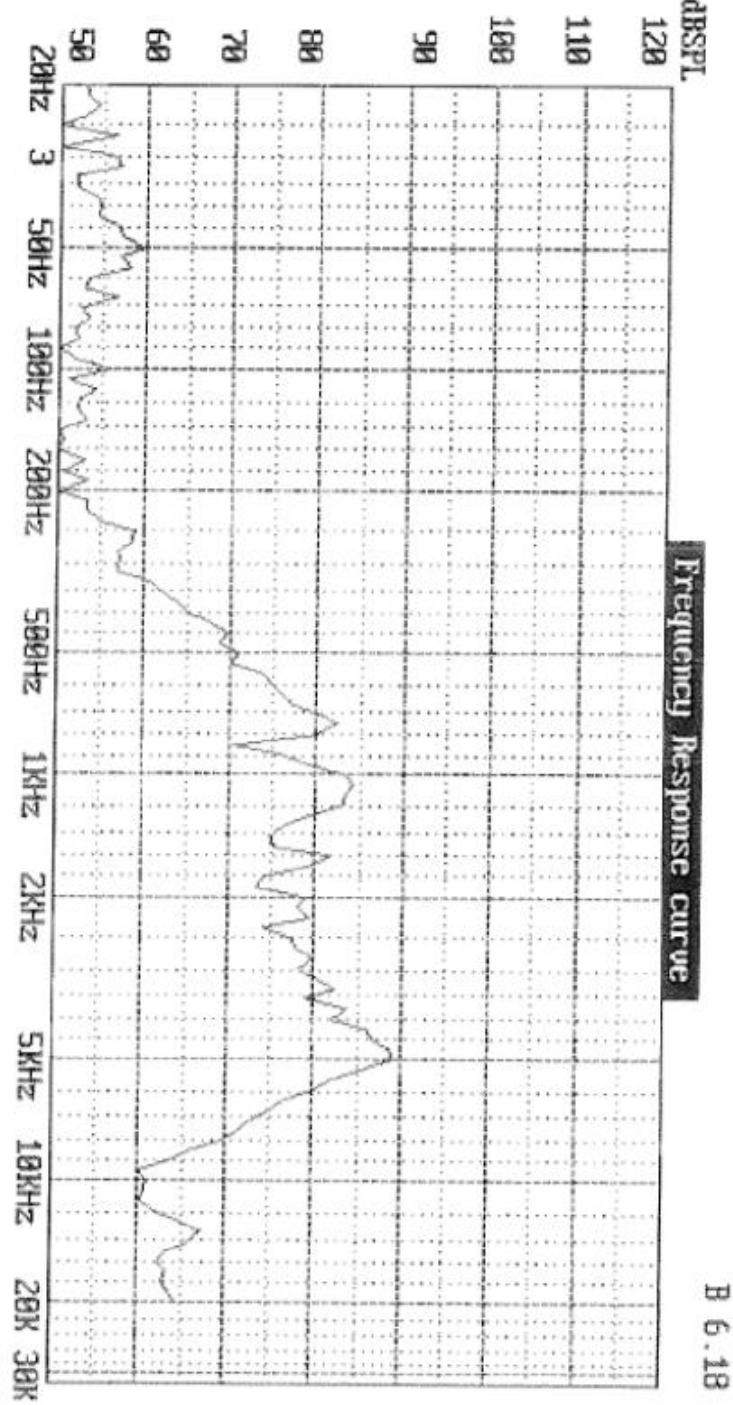
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PART NAME
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SHEET
6 OF 6

Firm: OBO
1000Hz Sens. = 89.2dB SPL Pass
Average SPL: 89.2dB SPL Pass
Model: *OBO-23032F-0301* DATE: 02-02-2013 TIME: 07:41:11
F.R.: Pass DCR: 29.62Ω Pass
(1000:1200:1500: 2000Hz) Sweep Speed: 1/12 Oct.



Voltage applied for F.R. = 2.530V
Measuring Distance = 0.58M
Start F. = 20Hz
Stop F. = 20000Hz
Mfg.:
Measured using Sunlight 1600; Fax: 886-2-22230727