



SPECIFICATIONS

MODEL NO
OBO-40008F-51

PART NAME
DYNAMIC SPEAKER

SHEET
2 OF 5

MODEL NO : OBO-40008F-51

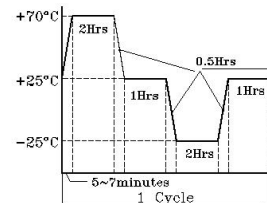
Features : Conformity RoHS Directive(2011/65/EU) Requests.

1. General Specifications

Items	Spec.
Dimension	Outline Dimension Shall Be As Shown In 3.1 .
Magnet	Materials NdFEB Size: $\Phi 11.0 \times 1.5\text{mm}$
Weight	Approx 7.4Grams
Nominal Impedance	8 Ohm $\pm 15\%$ At 2000Hz
Power Rating	Normal 2.0W. Maximum 2.5W.
Lowest Resonant Frequency	650 ± 20 %Hz
Output Sound Pressure Level (S.P.L)	98 ± 3 dB/2.0W/0.1M 95 ± 3 dB/1.0W/0.1M Average at 1000,1200,1500,2000Hz.
Frequency Response Range	F0 ~20,000 Hz. Average SPL -10dB.
Distortion	10% Maximum at 1000Hz/1.0W
Abnormal Sound Test	Must be Normal Tested by 4.0Volts. Sine Wave.
Polarity	Diaphragm shall move Forward when Apply a Positive DC Current to the “+” or “Marked” Terminal.
Operating Temperature	-20 $^{\circ}\text{C}$ To +70 $^{\circ}\text{C}$
Storage Temperature	-25 $^{\circ}\text{C}$ To +75 $^{\circ}\text{C}$

2. Environmental Test

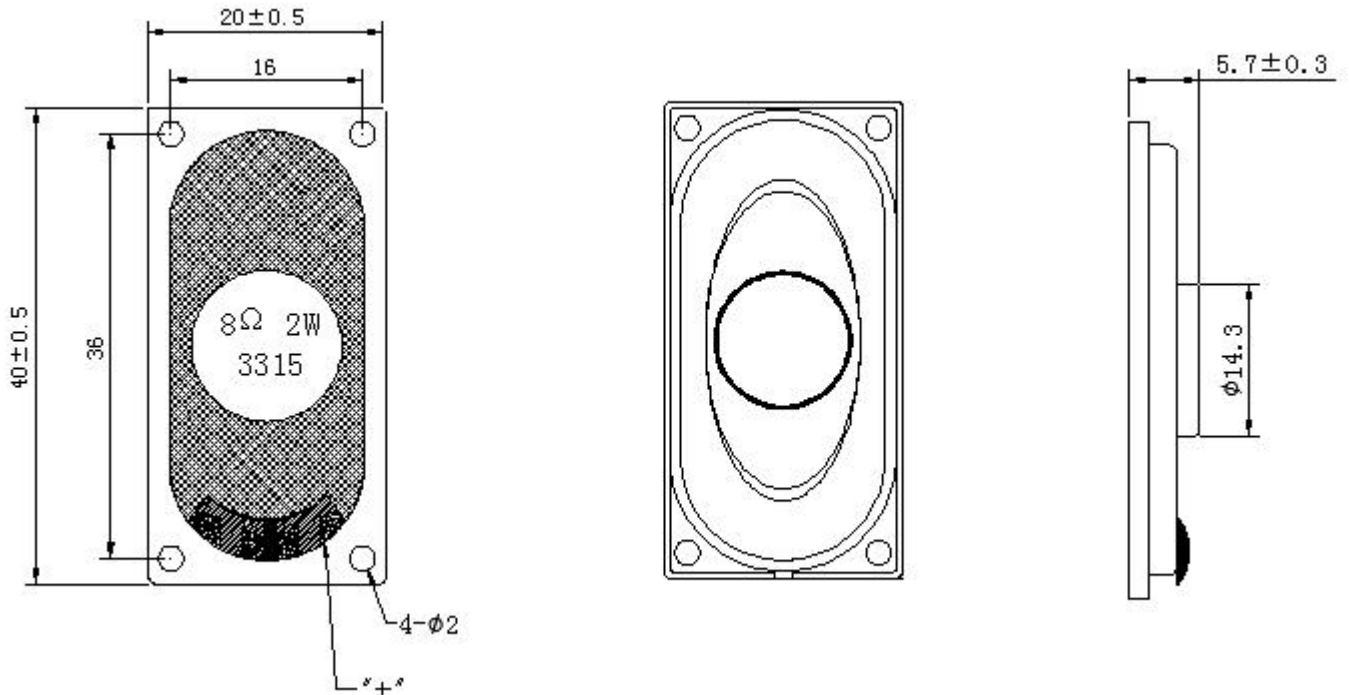
Humidity Test	Temperature: +40 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Relative Humidity: 90% ~ 95% Duration: 96 Hours Duration of recovery: 6 Hours
Temperature Cycle Test	Low Temperature: -25 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ High Temperature: +70 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration of recovery: 1 Hours Duration of Transfer Time: Less Than 5 to 7Minutes Cycle: 5 Cycles
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 4.0Volts.(RSM) 96 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 of 75cm



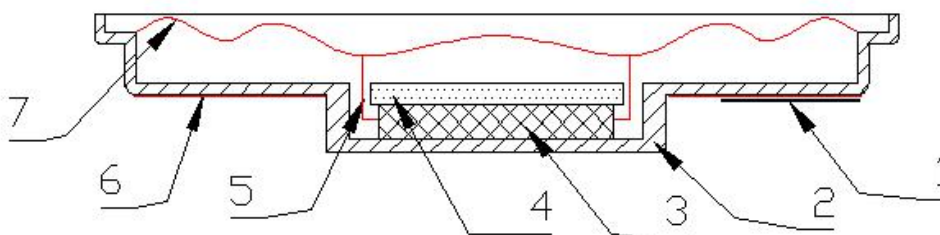
3. Mechanical Layout And Dimensions

3.1 Dimensions

Unit:mm Tolerance:±0.5



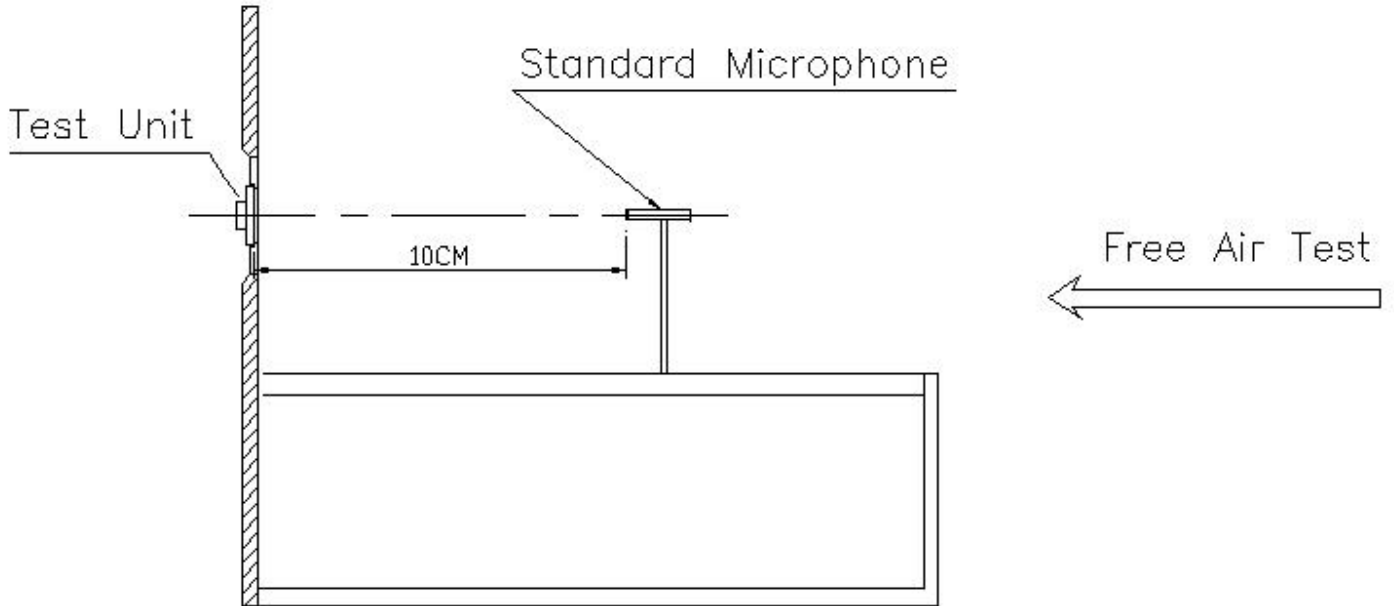
3.2 Construction Diagram



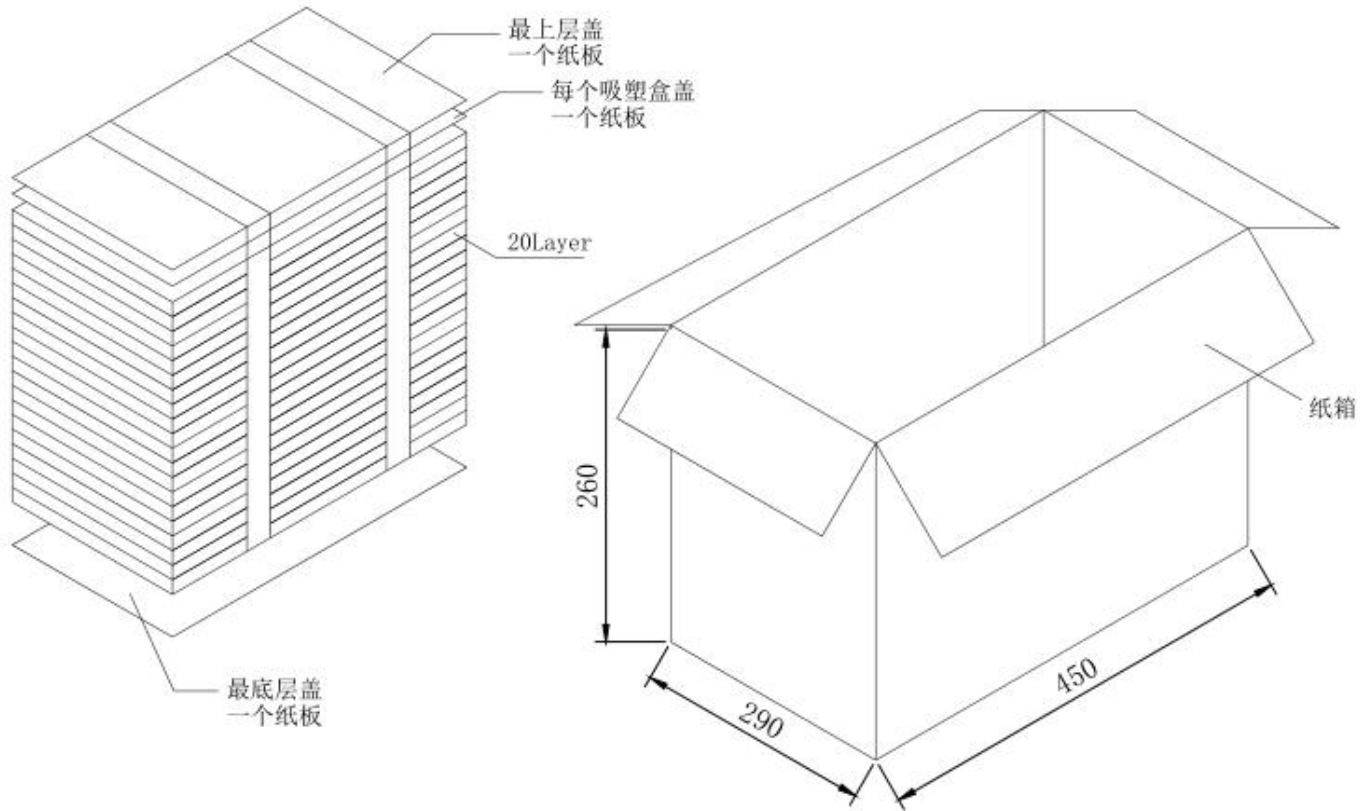
7	DIAPHRAGM	MYLAR	1
6	CLOTH	CLOTH	1
5	VOICE COIL	DIA 11.75mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOKE	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	Q'TY

4. Test Method

Measurement Diagram



5.Packing



TRAY	420mm*280mm*12mm	5*13=65PCS
CARTON	450mm*290mm*260mm	65PCS*20=1300PCS