





# SPECIFICATIONS

MODEL NO  
OBO-15008F-02

PART NAME  
DYNAMIC SPEAKER

SHEET  
2 OF 6

MODEL NO : OBO-15008F-02

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

## 1. General Specifications

Items	Spec.
Magnet	Materials NdFeB Size: $\Phi 6.5 \times 1.3\text{mm}$
Weight	Approx 1.2 Grams
Nominal Impedance	8 Ohm $\pm 15\%$ At 1000 Hz/1.0V
Power Rating	Normal 0.2W. Maximum 0.3W.
Lowest Resonant Frequency	1000 $\pm 20\%$ Hz
Output Sound Pressure Level (S.P.L)	86 $\pm 3\text{dB}$ /0.2W 0.1 Meter Average at 1000,1200,1500,2000 Hz.
Frequency Range	600 ~ 6000 Hz. Average SPL -10dB.
Distortion	5 % Maximum At 1200Hz/ 0.2W
Abnormal Sound Test	Must be Normal Tested by 1.26 Volts. 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 +50 $^{\circ}\text{C}$
Storage Temperature	-25 $^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$
Environmental Protection Regulation	RoHS

## 2. Environmental Test

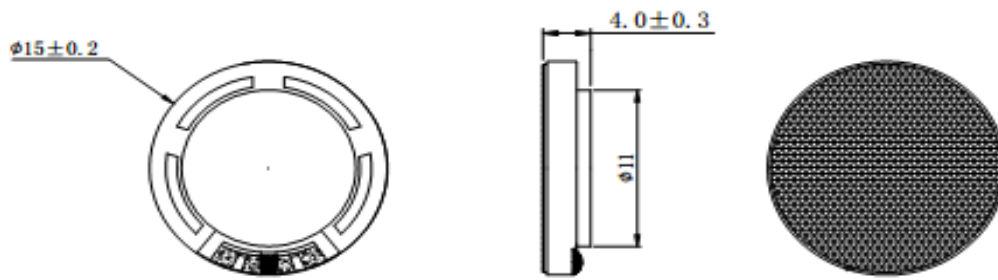
Humidity Test	Temperature: +40 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Relative Humidity: 90% ~ 95% Duration: 96 Hours Duration of recovery: 6 Hours
Temperature Cycle Test	Low Temperature: -25 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ High Temperature: +55 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration of recovery: 1 Hours Duration of Transfer Time: Less Than 5 to 7Minutes Duration of Exposure : 1Hour Cycle: 3 Cycles
	<p>The diagram illustrates a temperature cycle test waveform. The vertical axis represents temperature in degrees Celsius, with marked points at +55°C, +25°C, and -25°C. The horizontal axis represents time. A single cycle consists of: a 1-hour dwell at +55°C, a 5-7 minute transition to +25°C, a 1-hour dwell at +25°C, a 5-7 minute transition to -25°C, a 1-hour dwell at -25°C, and a 5-7 minute transition back to +25°C. The entire sequence is labeled as '1 Cycle'.</p>
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 1.26Volts.(RMS) 96 Hrs. 20~20,000Hz Resonant Frequency.
Drop Test	75cm Free Falling On Concrete Floor, with 10 times.

### 3. Mechanical Layout And Dimensions

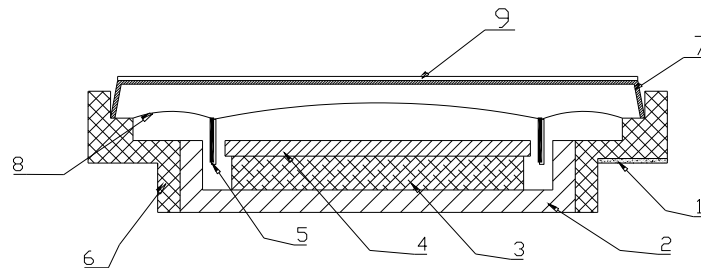
#### 3.1 Dimensions

Unit: mm Tol:±0.5

**Fig.1**



#### 3.2 Construction Diagram

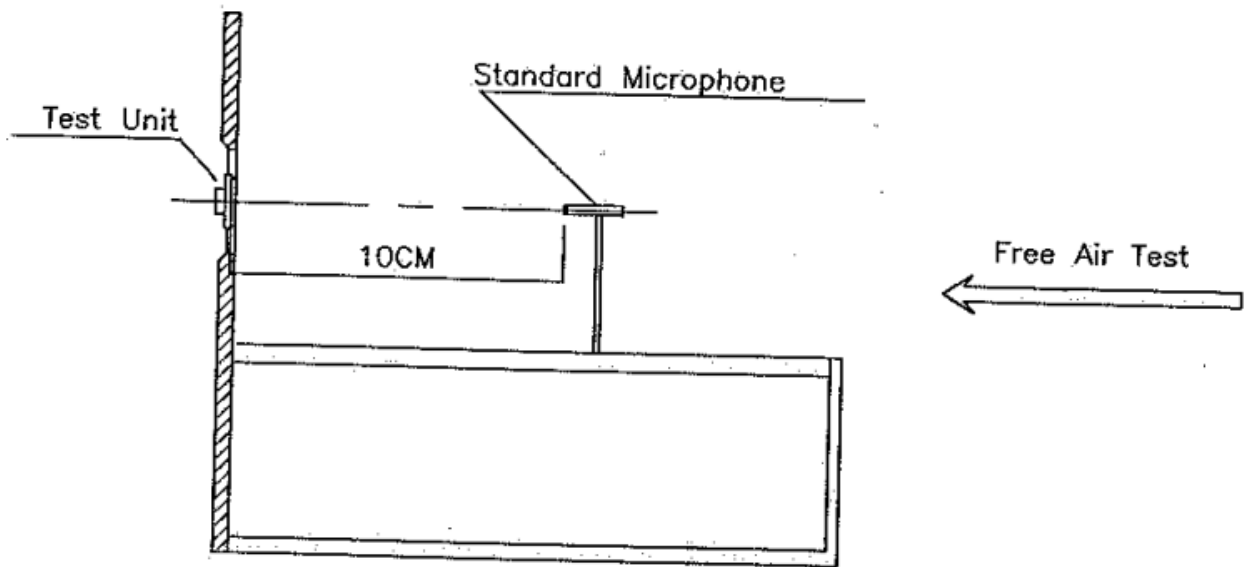


11			
10			
9	CLOTH	CLOTH	1
8	DIAPHRAGM	PET	1
7	COVER	STAINLESS STEEL	1
6	FRAME	ABS	1
5	VOICE COIL	DIA 7.5mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOKE	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	Q'TY

4. Test Method

4.1 Measurement Diagram

Electro acoustic  
Testing Adapter





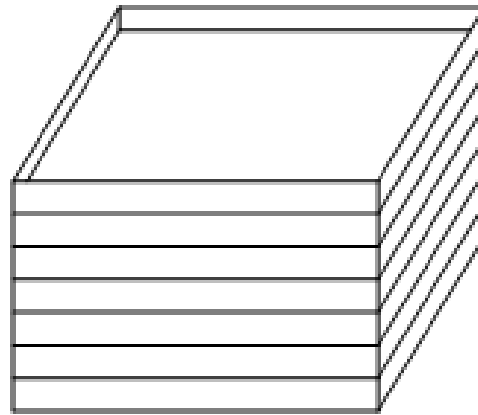
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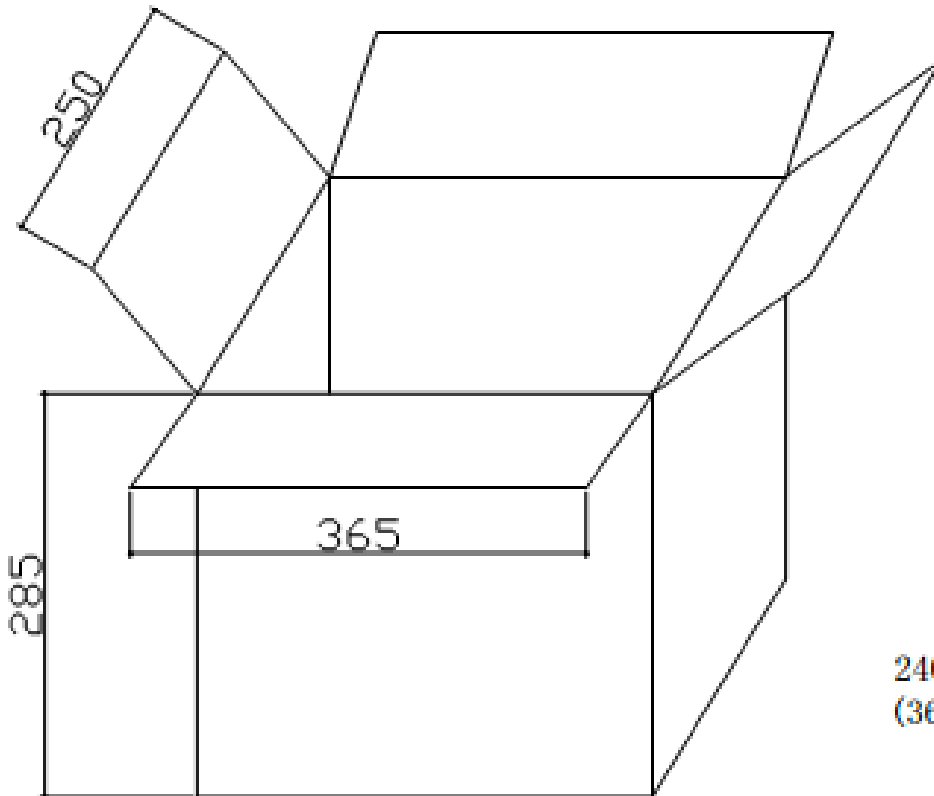
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5.Packing



150pcs/ TRAY  
16 TRAY



2400pcs/Carton  
(365\*250\*285mm)

### 6. Frequency Response Curve

