





# SPECIFICATIONS

MODEL NO  
OBO-40032G-17

PART NAME  
DYNAMIC SPEAKER

SHEET  
2 OF 5

MODEL NO : OBO-40032G-17

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: $\Phi 19.5 * \Phi 5.0 * 2.0\text{mm}$
Weight	Approx 16.3Grams
Nominal Impedance	32 Ohm $\pm 15\%$ At 1000Hz
Power Rating	Normal 0.02W. Maximum 0.05W.
Lowest Resonant Frequency	130 $\pm 50$ Hz
Output Sound Pressure Level (S.P.L)	116 $\pm 3$ dB/0.001W/0.01M at 1000Hz.
Frequency Response Range	20 ~8,000 Hz. Average SPL -20dB.
Distortion	5% Maximum at 1000Hz/0.001W
Abnormal Sound Test	Must be Normal Tested by 0.8Volts. 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 +55 $^{\circ}\text{C}$
Storage Temperature	-25 $^{\circ}\text{C}$ To +55 $^{\circ}\text{C}$

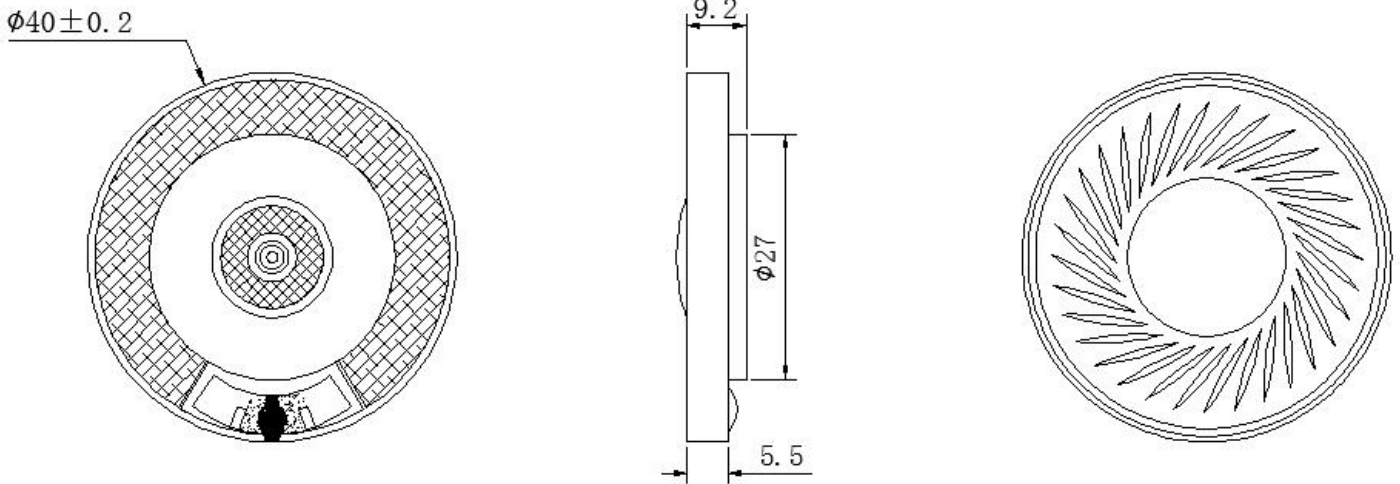
## 2. Environmental Test

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: +55 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration of recovery: 1 Hours Duration of Transfer Time: Less Than 5 to 7Minutes 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 0.8Volts.(RSM) 96 Hrs. 20~20,000Hz Resonant Frequency.	
Drop Test	75cm Free Falling On Counter Floor,10 Times.	

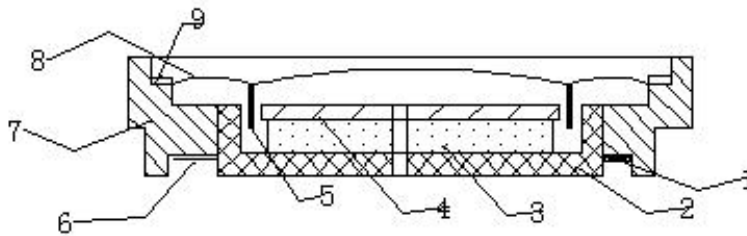
**3. Mechanical Layout And Dimensions**

**3.1 Dimensions**

**Unit:mm Tolerance:±0.5**



**3.2 Construction Diagram**



9	Ring	Cu	1
8	DIAPHRAGM	MYLAR	1
7	PLASTICS CASE	ABS	1
6	CLOTH	PAPER	1
5	VOICE COIL	DIA 20.4mm	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

## Measurement Diagram

