

# APPROVAL SHEET

Model No. : NS72M-16005-01

Only No. :

Date : 2023.3.30

Description :

APPROVER	CHECKER	DESIGN
	YongFei Zhang	Chao Fan

Please kindly make approval of our samples, And return this form by fax or airmail,

Thanks for your kind attention and co-operation.

Customer Name :

Customer Model No. :

Customer Project No. :

**CUSTOMER APPROVAL**

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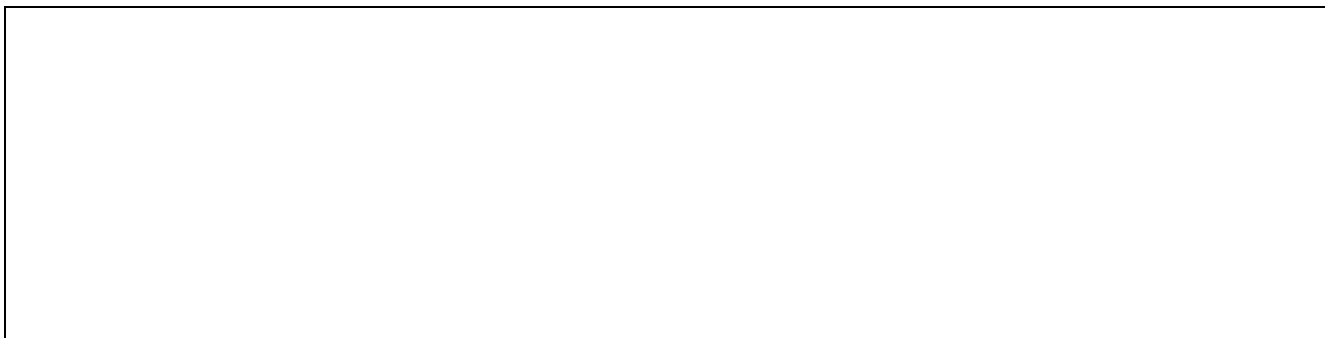


## Acoustic Specifications

### 声学规格书

Product Part Number 产品编号: NS72M-16005-01

Product Picture 产品图片



### Revision Record 修订记录

No. 序号	Date 日期	Description 修订原因	Revision 版本	Acoustics Engineer 声学工程师

Sample Number 样品流水号:

Datasheet Version 规格书版本: Ver 1.0





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## 1. SCOPE AND FEATURES.

This specification covers our product of Speaker unit for various uses.

## 2. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS.

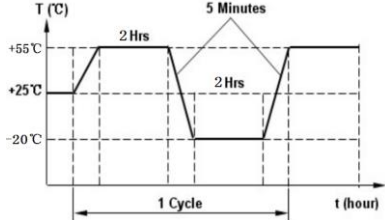
ITEMS		COMMENTS
2.1	Impedance (DCR)	16 ± 15% OHM
2.2	Sensitivity (SPL)	102 ± 3dB 1mW At 1KHz IEC318Ear
2.3	Distortion (THD)	Less than 1% At 1000mV Input 1K Hz
2.4	Input Power (Nor Max)	50mW / 100mW
2.5	Operation	Input: 50mW Frequency Range: 5– 50K Hz
2.6	Buzz, Rattle etc.	Must be normal at sine wave 0.89V 20~5K Hz
2.7	Polarity	When the speaker terminal has a “+” or “Red dot”, it's the positive terminal.

## 3. GENERAL REQUIREMENTS.

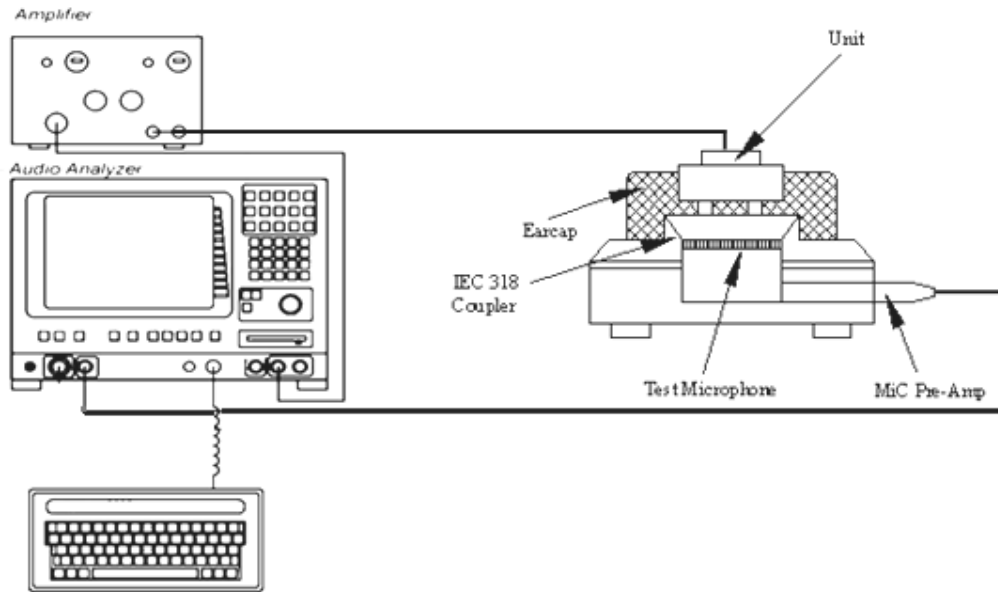
1. Weight : Appr 38 g
2. Operating Temperature Range :
  - 15°C to + 55°C without loss of function
3. Storage Temperature Range :
  - 20°C to + 55°C without loss of function

**4. RELIABILITY TEST.**

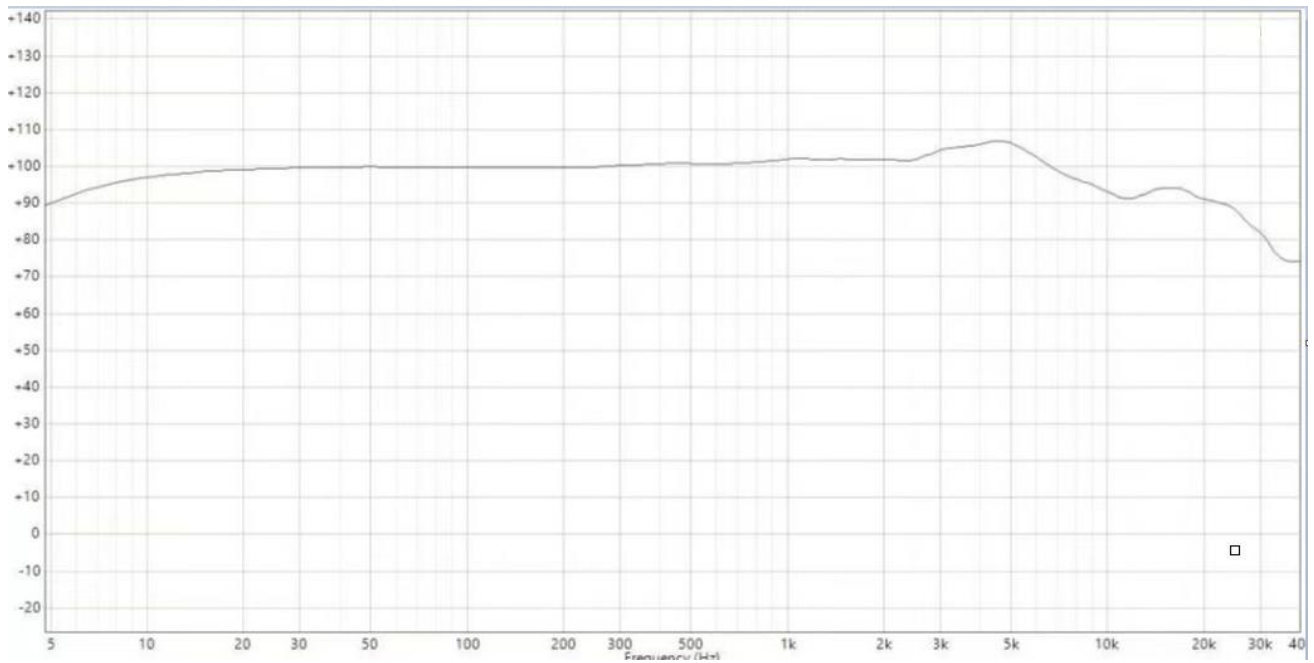
The deviation of the initial sound pressure of sample shall not exceed (+3 db) , and the sound pressure of the samples should be within  $\pm 3\text{dB}$ (at 1KHz) of initial sound pressure after the follow-up tests and no major damage shall occur.

ITEMS		COMMENTS
4.1	Temperature Test	High temperature: $55^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Low temperature: $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Duration: 2 hours Cycle: 5 
4.2	Humidity Test	Temperature: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Relative Humidity: 90%~95%H.M Duration: 24 hours (recovery 6 hours)
4.3	Vibration Test	Sensitivity difference shall be within $\pm 3\text{dB}$ after test(at 1KHz) Frequency range :10-55 Hz amplitude:1.5mm Duration: 2h in each of 3 axis
4.4	Drop Test	Sensitivity difference shall be within $\pm 3\text{dB}$ after test(at 1KHz) Height: 1.0M Cycle: 6cycles
4.5	Load Test	Sensitivity difference shall be within $\pm 3\text{dB}$ after test(at 1KHz) Signal: White Noise Input Power: 50mW Test Time: 96 hours
4.6	Polarity Test	Equipment: polarity tester The speak must be polarity test and mark the red on the positive plate

## 5. MESUREMENT BLOCK DIAGRAM & FREQUENCY RESPONSE CURVE.



## SPEAKER MODE BLOCK DIAGRAM



## FREQUENCY RESPONSE CURVE

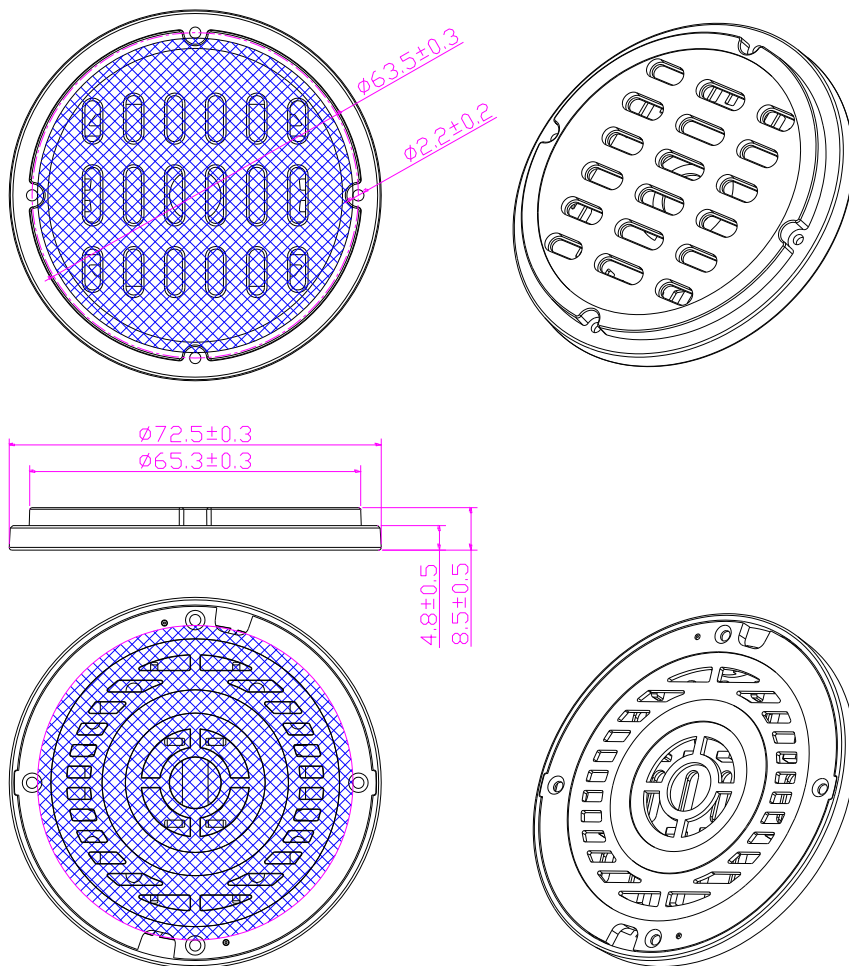


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# SPEAKER SPECIFICATION

## 6. DIMENSIONS.

Unit:mm



7	DAMPER	1	CLOTH	
6	PCB	1	FPC	
5	Washer	1	Fe	
4	Magnet	1	NdFeB	
3	Voice coil	1	Cu	
2	Diaphragm Material	1	Multilayer composite	
1	Frame	1	ABS+Fe	
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK