PRODUCT SPECIFICATION NO.:Y136061-032-S-A

CUSTMOER	
CUSTOMER MODEL	
PART NAME	Y136061-032-S-A 13.6mm+Pizeo
PART MODEL	Y136061-032-S-A

APPROVED BY	CHECKED BY	MADE BY

CUSTOMER APPROVAL		

PLEASE SEND US A COPY, IF YOU APPROVE

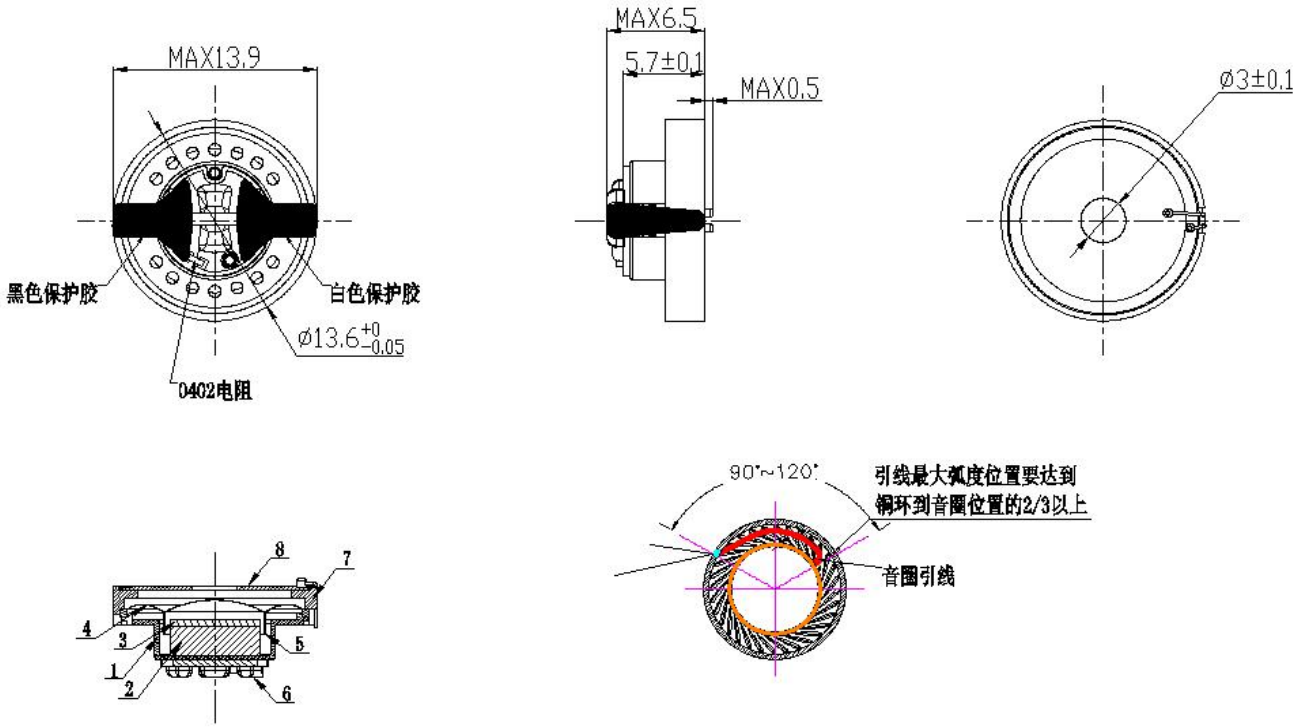
Changzhou AMT Co., Ltd.
Add：NO.7.Lanxiang Road Wujin Economic Zone，Changzhou，Jiangsu，China
Tel：0519-81882133
Fax：0519-81882132
http://www.china-armature.com

REVISION AND UPDATES				
REV	DATE	PAGE	DESCRIPTION	SIGN
A/0	2018-03-13	/	Original	Jialiang.Hu
REMARK:				

1. Product Outline

1.1 This specification is applied to Speaker Driver.

1.2 Product dimensions is Φ13.6*6.1mm, Show in figure（1）



NO.	PART NAME	MATERIAL	Q'ty	SPEC
1	FRAME	SPCC	1	Φ13.6x3.5
2	MAGNET	NdFeB	1	Φ6.0x2.0；N45；无中孔
3	PLATE	SPCC	1	Φ6.3x0.4T 无中孔
4	DIAPHRAGM	PET	1	Φ13.48x0.6;7μ
5	VOICE COIL	CU	1	Φ7.16x1.6xΦ0.035x32 大黑线
6	PCB	FR4	1	Φ8x0.4T
7	PLASTIC FRAME	ABS	1	Φ13.6x1.4
8	PIZEO	STAINLESS	1	Φ12.6x0.35
9	AB 胶	/	2mg	/
10	60 胶	/	2mg	/
11	424 白油	/	1mg	/
12	UV 胶	/	1.5mg	/
13	黑胶	/	3mg	/
14	白胶	/	2mg	乳白色

Figure (1) Dimension

2. Test Environment Requirements

2.1 The test conditions unless otherwise specified should be normal temperature 15 to 30℃, normal humidity 45 to 85% and normal atmospheric pressure 860 to 1060hPa.

2.2 if there arises a doubt in judgment, the test conditions shall be as follows: (1) Temperature 20±2℃;(2) Humidity60%~70%; (3) Atmosphere 860~1060hPa

2-1 Test set up	Hardware connection reference ： Hardware connection shown in figure （2）； Test Fixture schematic shown in figure （3）
2-2 Impedance	32Ω ± 15% Ohm ，at 1KHz，Input：0.179 VRms
2-3 Sound pressure level	104±3dB at 1KHz，Input：0.179 VRms ，IEC318Ear
2-4 Frequency response curve	shown in figure （4）
2-5 Rate power	5 mW
2-6 Max power	20mW
2-7 THD	Input：0.179VRms ，IEC318Ear ； shown in figure （5）
2-8 Polarity	The Mark is Normal Polarity ("+")
2-8 Operating temperature	-20℃ to +70℃
2-9 Storage temperature	-40℃ to +70℃
2-10 BUZZE & RATTLES	Must be free audible noise From 50 Hz to 3KHz frequency range, Input：0.4VRms

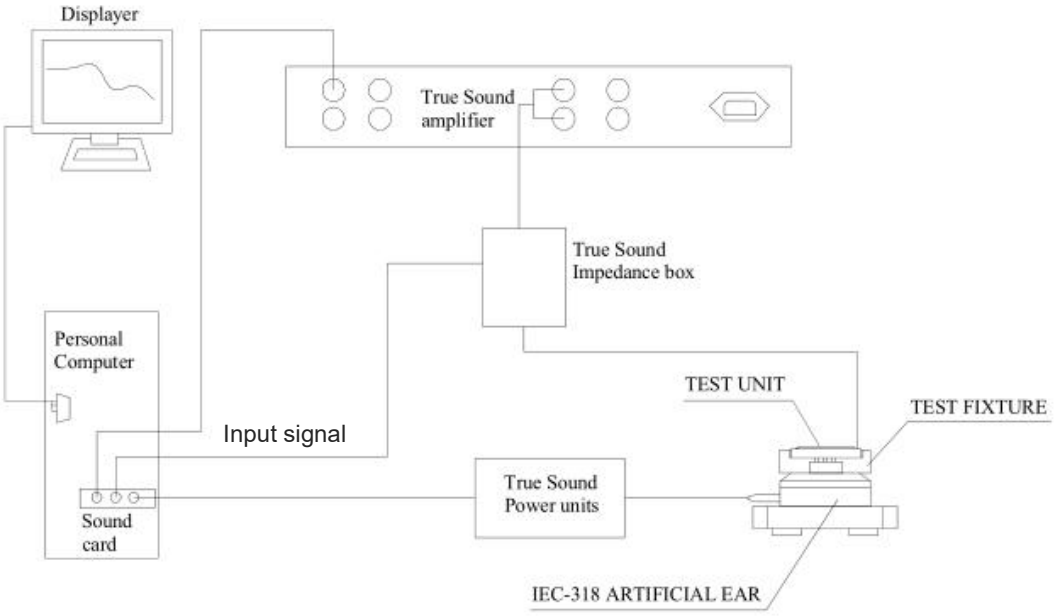


Figure (2) Hardware connection

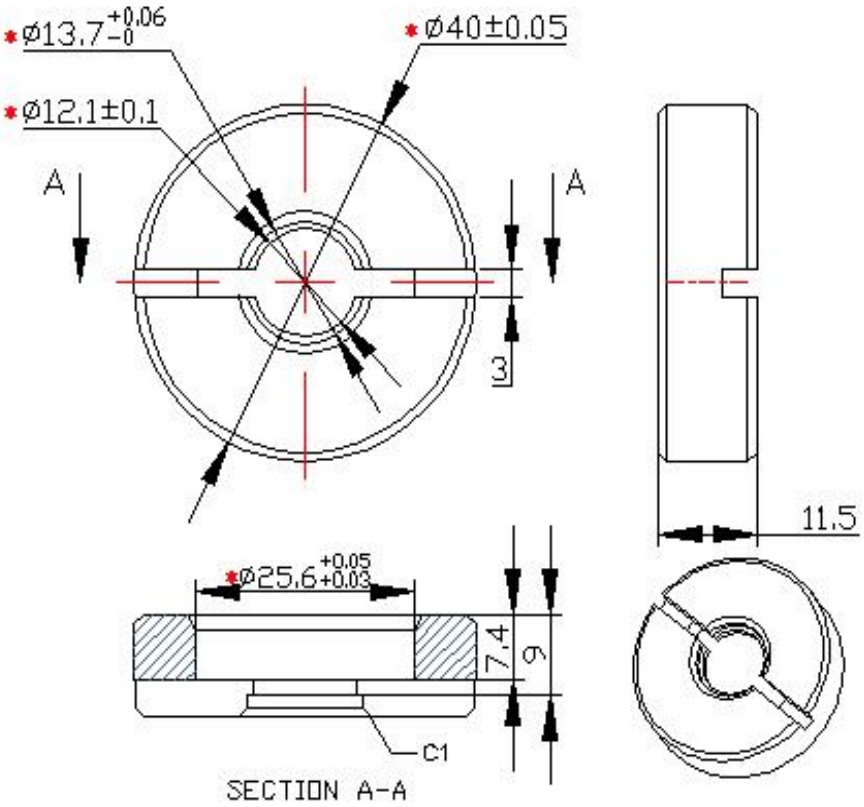
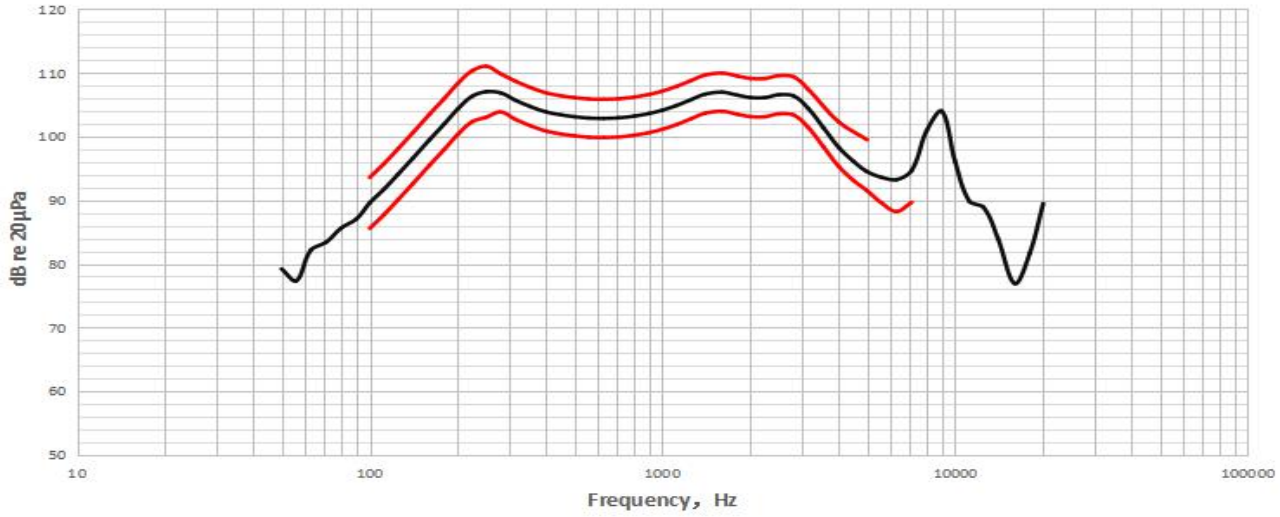


Figure (3) Test fixture schematic

AMT Y136061-032-S-A Typical Response Curve

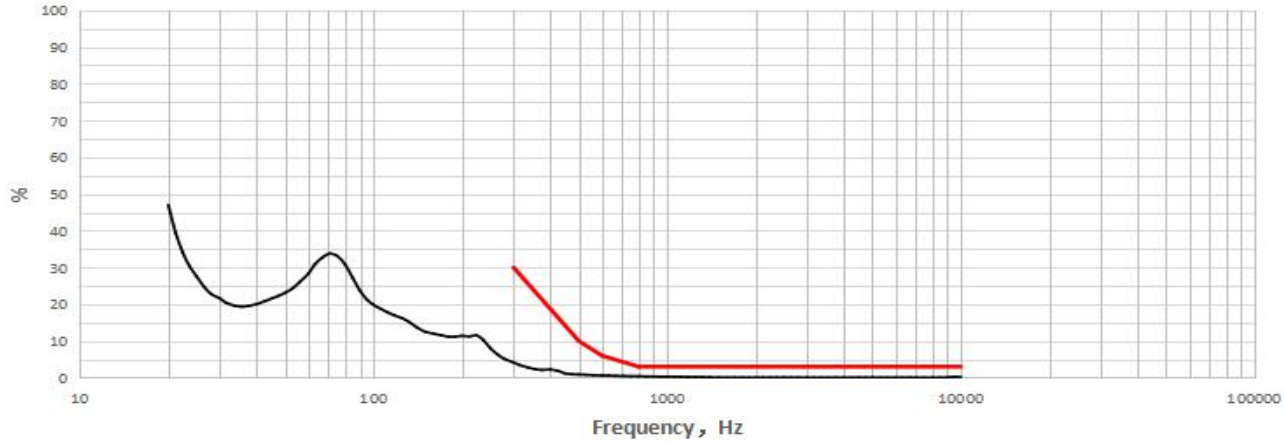


Frequency (Hz)	100-250	250-3150	4000	5000	/
Upper Limits	4	3	4	5	
Frequency(Hz)	100-250	250-5000	5600	6300	7100
Lower Limits	-4	-3	-4	-5	-5
分档原则：（依据 1KHz 灵敏度）因临界值与机器的误差存在，相邻档位允许窜动，窜动值最大为 1dB。					

档位	A	B	C
灵敏度范围（dB）	105.1-107	103.1-105	101-103

Figure (4) Frequency Response curve

AMT Y136061-032-S-A Distortion Curve



Frequency(Hz)	300	500	600	800	10000
Limits(%)	30	10	6	3	3

Figure (5) THD curve

3. Reliability test

3.1 Continues power on test

Condition: 5mw Pink noise
Approximate test time 96h
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test.

3.2 Short time power on and off test

Condition:10mw
Model of operation: Power on 60s and off, total 60 cycle
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test.

3.3 Free fall test

Condition: 1m (To Hard wood)
Model of operation: Power off
Approximate test time : total 10 times
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test.

3.4 Temperature cycling, non-operational

Condition: Temperature:-40℃~70℃
Model of operation: Power off
Approximate test time : Low temperature 30Min and High temperature 30Min, total 24cycle
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test(At room temperature for 4H).

3.5 Cold, non-operational

Condition: Temperature:-40℃
Model of operation: Power off
Approximate test time 96 h
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test(At room temperature for 4H).

3.6 Heat, non-operational

Condition: Temperature:+70℃
Model of operation: Power off
Approximate test time 96 h
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test(At room temperature for 4H).

3.7 Temperature and humidity cycling, non-operational

Condition: Temperature:-30℃~70℃, 90%RH
Model of operation: Power off
Approximate test time : 4H/cycle, total 15 cycle
Sample Qty:10pcs
Pass/fail criteria: Unaffected performance after the test(At room temperature for 4H).

3.8 Salt spray test

Environment condition :temperature: 30℃, ≥70% RH;
Test box condition: Test box and salt water temperature: 35℃, pressure air temperature: 47℃
Salt water: JIS-S-8150 NaCl concentration: 5+/-1%, PH 6.5-7.2
Model of operation: Power off
Approximate test time : 24h Sample Qty:10pcs with fixture
Pass/fail criteria: Unaffected performance after the test.

4. PACKING

Protection use Carton + EPE + Bubble Box，shown in figure(6)

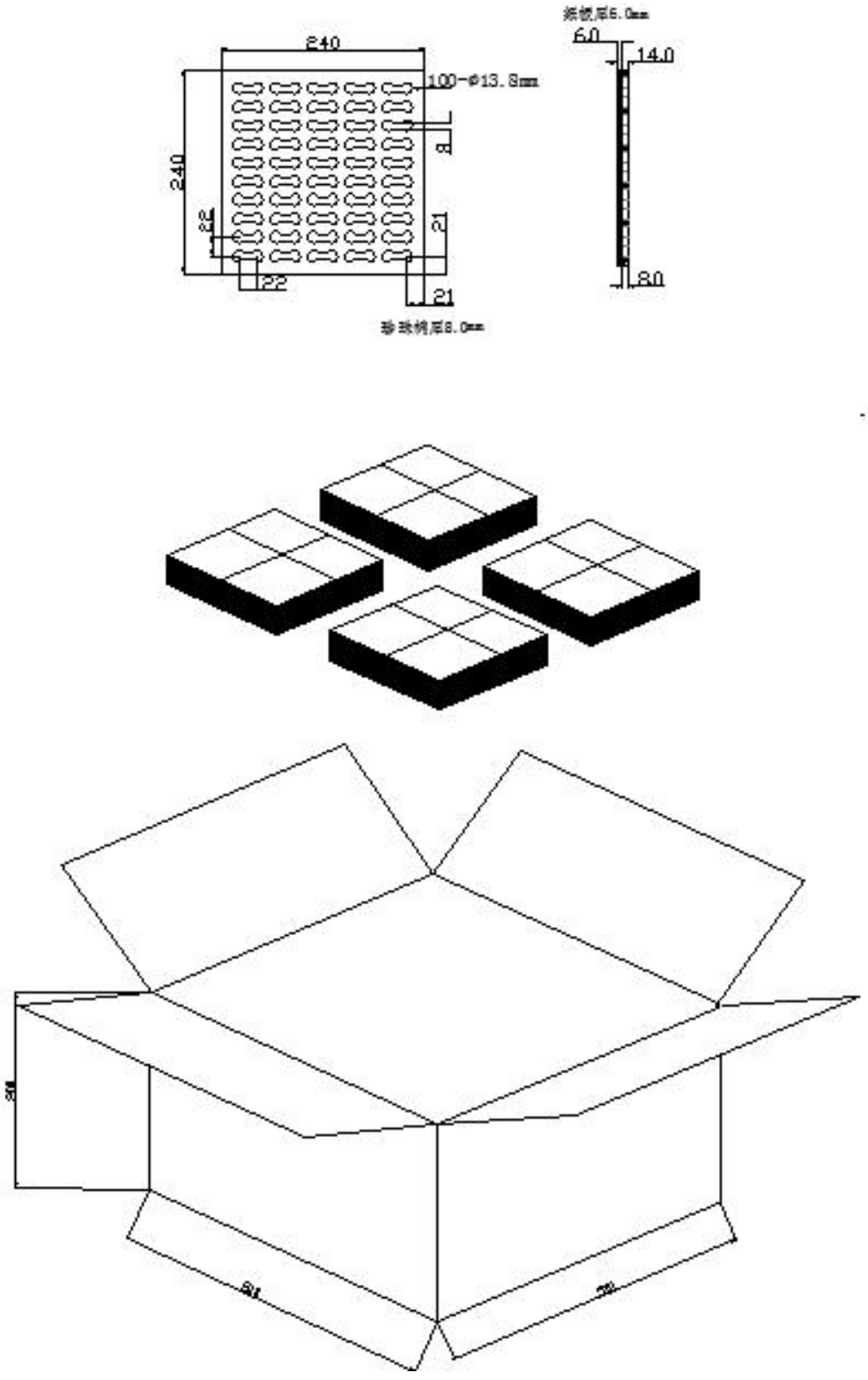


Figure (6) Packing