




**MESSRS.** 客戶公司行號

## SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AMF-O60G36-NB1
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
		



**Advanced Acoustic Technology Corporation**  
昊宸股份有限公司 // 常州笠翔电子有限公司



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ISO 14001 Certified

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# ADVANCED ACOUSTIC TECHNOLOGY CORP.

# 昊 宸 股 份 有 限 公 司

[illegible]

## 1. SPECIFICATIONS

AMF-O60G36-NB1

01	Electret's Type	Foil type
02	Sensitivity	-36±3dB (0dB=1V/Pa,1KHz)
03	Standard Operation Voltage	2.0 V
04	Output Impedance	2.2 KΩ
05	Directivity	Omni directional
06	Frequency Range	100 - 20K Hz
07	Max. Operation Voltage	10V
08	Current Consumption	Max.0.5mA
09	Sensitivity Reduction	Within -3dB 0dB=1V/Pa,1KHz Vs=2.0to 1.5V
10	S/N Ratio	≥58dB
11	Sound Pressure Level	110 dB
12	Operating Temperature	-20~+60℃
13	Storage Temperature	-25~+70℃

## 2. MEASURING METHOD

### 2-1. Test Condition

#### Standard Conditions:

Generally Temperature 15~35℃

Generally Humidity 45~85%

Generally Atmospheric Pressure 860~1060hpa

#### Basic Test Conditions:

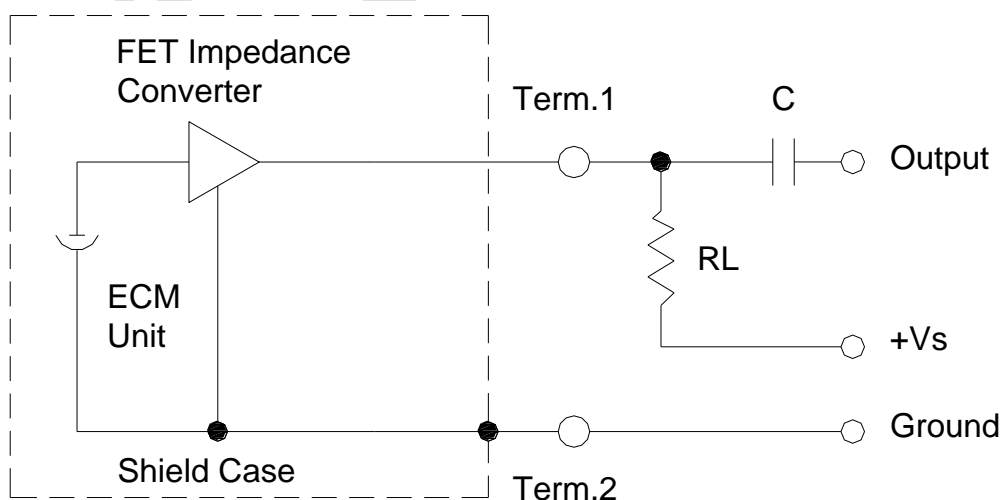
Temperature 20±2℃

Humidity 60~70%

Generally Atmospheric Pressure 860~1060hpa

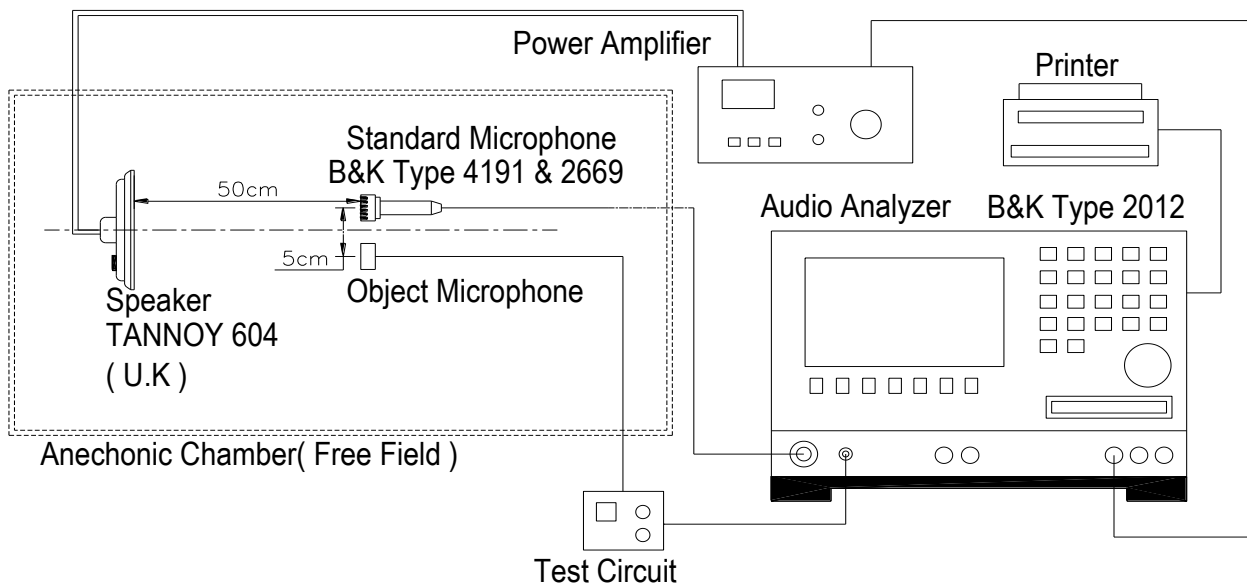
### 2-2. Standard Test Circuit

Vs=2.0V RL=2.2KΩ Te=20℃ R.H.=60%



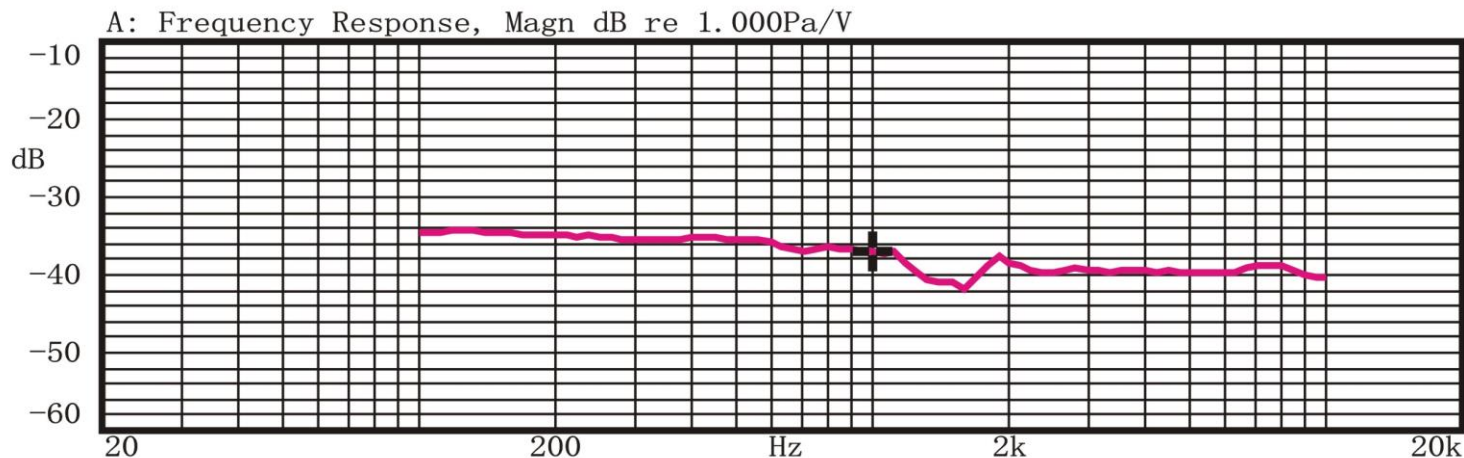
RoHS

### 2-3. Standard Test Fixture



## 2-4. Frequency Response Curve

X:1.0000kHz Y:-37.04dB ZA:Live Curve SSR Fund.

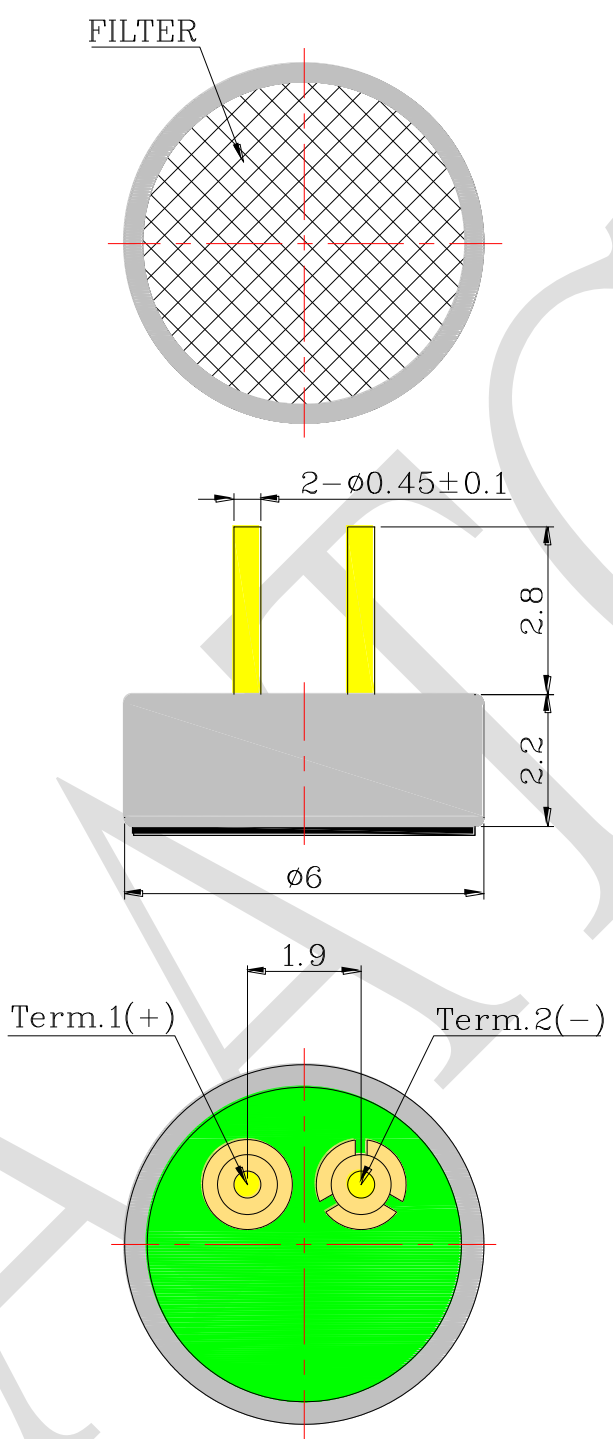


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Mode: MICMEAS



REV NO.	REVISION NOTE	APPROVAL	DATE
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RoHS

TITLE: MICROPHONE		DRAWN: Jerry 2014/02/25		SCALE: 5:1	SHEET: 1 of 1
PART NO. AMF-060G36-NB1	1	DESIGNED: R & D OF AAT		UNITS: mm	
		CHECKED:		TOLERANCE ± 0.3	
DWG NO. F6022AP-ST 10483	REV	APPROVAL:		UNLESS OTHERWISE SPECIFIED	
		MATERIAL: *****		ONE PLACE DECIMAL ± ***	
				TWO PLACE DECIMAL ± ***	
				THREE PLACE DECIMAL ± ***	



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#### 4. RELIABILITY TEST

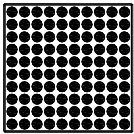
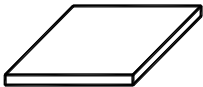
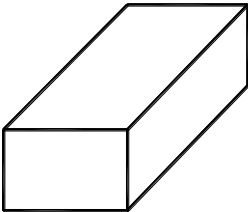
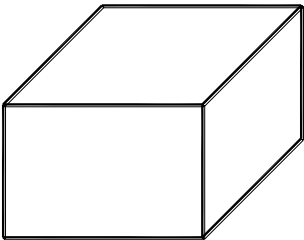
Item		Test Conditions	Evaluation Standard
01	High Temp. Test	After exposure at 70°C for 96 hours	After any tests , the sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20°C and shall keep their initial operation and appearance.
02	Low Temp. Test	After exposure at -25°C for 96 hours	
03	Temp. Cycle Test	A After exposure at 70°C for 30 minutes, at room temp. for 10 minutes, at -25°C for 30 minutes, at room temp. for 10 minutes, at 5 cycles.	
04	Humidity Test	After exposure at 40°C and 90 $\pm$ 5% relative humidity for 96 hour.	
05	Vibration Test	10~50Hz for 1 minute full amplitude 1.52mm for 2 hours at three axis.	
06	Drop test	The microphone unit without packaged must be subjected to each 3 drops at three axis from the height of 1 meter to 20mm thick hardwood.	

#### 5. SOLDERING CONDITION

Every microphone has installed FET, The FET is easy broken by **strong heat** and **static electricity**, so when you working on, pls be attention that:

- Recommend using constant searing-iron in temperature range **330 $\pm$ 5°C**.
- Soldering time **2** seconds.
- Don't stay any hole or dust when soldering.
- To avoid the microphone be broken by static electricity, the people and working station should install prevent static electricity equipment.

5.PACKING

	DRAWING	QTY(PCS)	SIZE(MM)	MATERIAL	MARKING
PACKING		100	99x99x3	Sponge	
		100	100x100x8	Paper	
MIDDLE		1000	204x104x45	Paper	
OUTER BOX				Paper	