

# *MESSRS.*

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## SPECIFICATION FOR APPROVAL

## 承 認 書

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AMB-O60H40-NB
Customer Approval	

Approved By	Checked By	Made By
工程部 王台平 JUNE-28-2005	工程部 劉民祥 JUNE-28-2005	工程部 許俊程 JUNE-28-2005



**ADVANCED ACOUSTIC TECHNOLOGY CORP.**

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# 1. SPECIFICATIONS

AMB-O60H40-NB

01	Electret Type	BACK type
02	Sensitivity	-40±3dB (0dB=1V/Pa,1KHz) Band form 300 to 3K Hz
03	Output Impedance (Max)	2.2KΩ
04	Directivity	Omnidirectional
05	Frequency Range	70-20,000Hz
06	Max.Operation Voltage	10V
07	Standard Operation Voltage	2.0V
08	Current Consumption	Max.0.5mA
09	Sensitivity Reduction	Within -3dB 0dB=1V/Pa,1KHz Vs=2.0 to 1.5V
10	S/N Ratio	> 58dB
11	Operating Temperature	-25~+70°C
12	Storage Temperature	-40~+70°C

## 2. MEASURING METHOD

### 2-1. Test Condition

Standard Conditions:

Generally Temperature 15~35°C

Generally Humidity 45~85%

Generally Atmospheric Pressure 860~1060hpa

Basic Test Conditions:

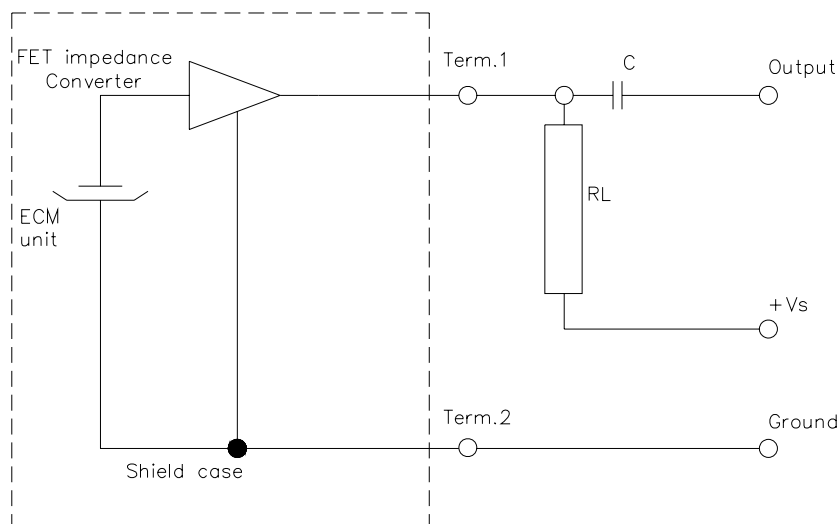
Temperature 20±2°C

Humidity 60~70%

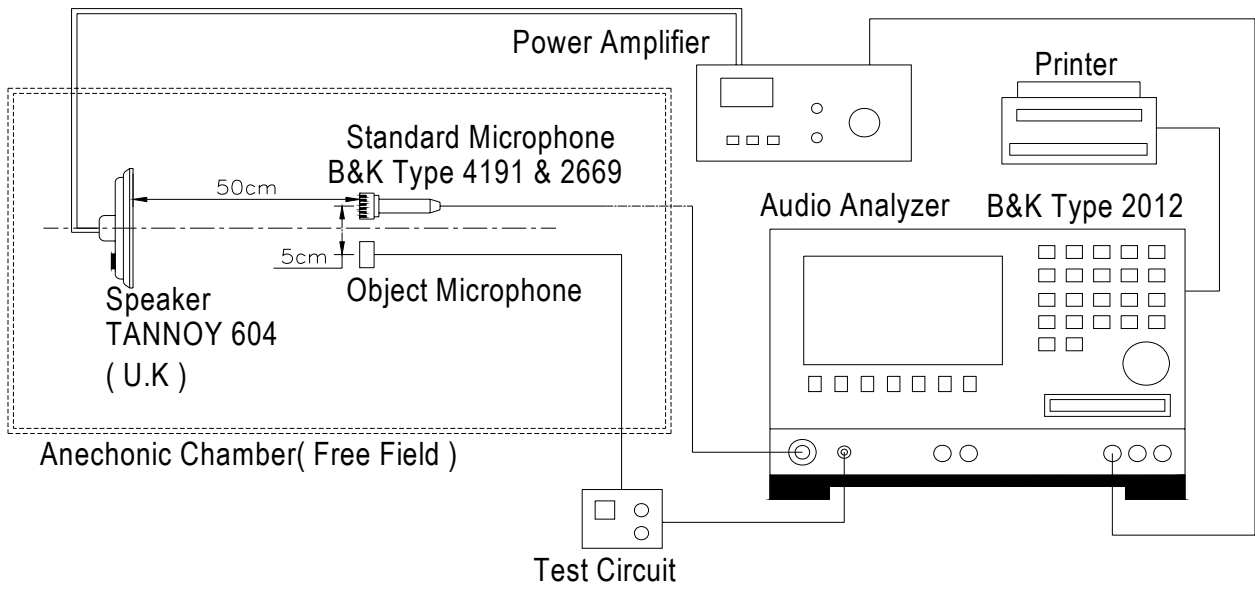
Generally Atmospheric Pressure 860~1060hpa

### 2-2. Standard Test Circuit

Vs=2.0V RL=2.2KΩ Te=20°C R.H.=60%

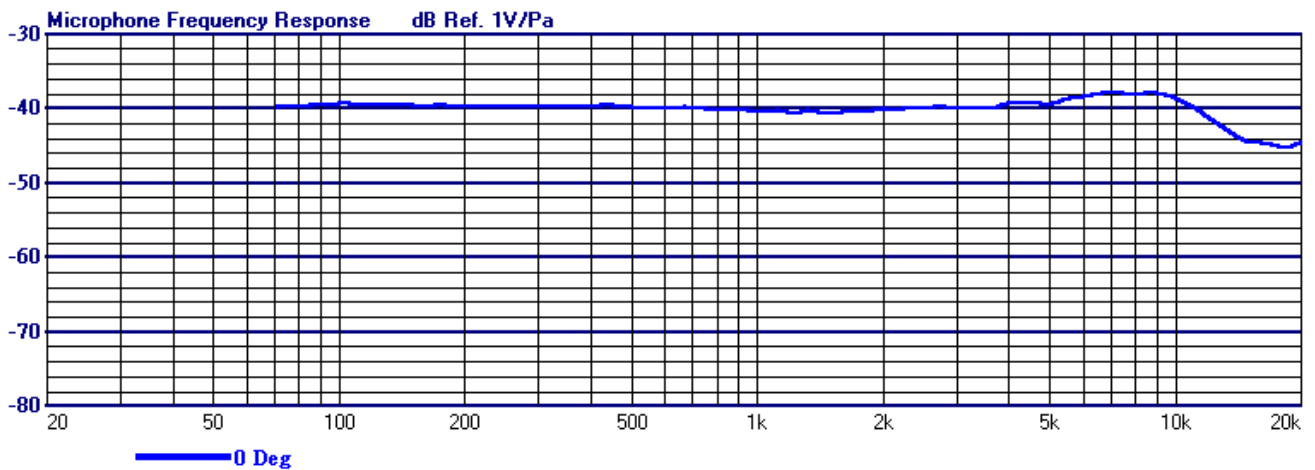


## 2-3. Standard Test Fixture



## 2-4. Frequency Response Curve

**X : 1000 Hz**      **Y : -40.3 dBV/Pa**  
**Y : -38.1 dBm/Pa**  
**D : 0.0 dB**

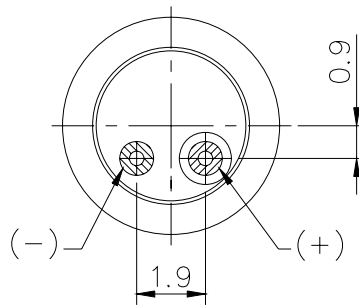
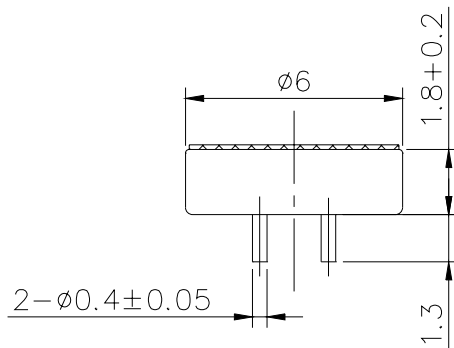
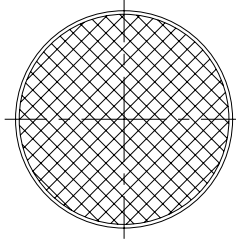


REV NO.

REVISION NOTE

APPROVAL

DATE



TITLE: MICROPHONE		DRAWN: JOKEN 06/28/2005	SCALE: 5:1	SHEET: 1 of 1
PART NO. AMB-060H40-NB		DESIGNED: R & D OF AAT	UNITS: mm	
DWG NO. DTM-1226		CHECKED:	TOLERANCE ± 0.2	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
REV 1		MATERIAL: *****		



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## 4. RELIABILITY TEST

Item		Test Conditions	Evaluation Standard
01	High Temp. Test	After exposure at 70°C for 200 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 200 hours	
03	Temp. Cycle Test	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 200 hours.	
05	Vibration Test	10~50Hz for 1minute full amplitude 1.52mm ,for 2 horous at three axes .	
06	Drop test	The microphone unit without packaged must be subjected to each 3 drops at three axes from the height of 1 meter to 20mm thick hardwood.	
07	Pull Strength Test	The microphone assembly shall suffer no change from a pull strength of 0.5 kg for 3 seconds applied between the connector and the microphone.	

## 5. SOLDERING CONDITION

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

- a. Recommend using constant branding iron in 15 ~ 30W, and in temperature range 240 ~ 270°C.
- b. Soldering time not over 3 seconds.
- c. Don't stay any hole or dust when soldering.
- d. To avoid the Mic. be broken by static electricity, the people and working station should install prevent static electricity equipment.