

# MESSRS.

## SPECIFICATION FOR APPROVAL

### 承 認 書

<b>Product</b>	ELECTRET CONDENSER MICROPHONE
<b>Part No.</b>	AMF-O94B46-NA (RoHS)
<b>Customer Approval</b>	
<b>Customer Project</b>	

Approved By	Checked By	Made By
		



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EDITION:1.1

# 1. SPECIFICATIONS

AMF-O94B46-NA (RoHS)

01	Electret Type	Foil type
02	Sensitivity	-46±3dB (0dB=1V/Pa,1KHz)
03	Standard Operation Voltage	4.5V
04	Output Impedance (Max)	2.2KΩ
05	Directivity	Omnidirectional
06	Frequency Range	70 - 20K Hz
07	Max. Operation Voltage	10V
08	Current Consumption	Max.0.5mA
09	Sensitivity Reduction	Within -3dB 0dB=1V/Pa,1KHz Vs=4.5to 3.0V
10	S/N Ratio	≥58dB
11	Operating Temperature	-20~+60°C
12	Storage Temperature	-25~+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:

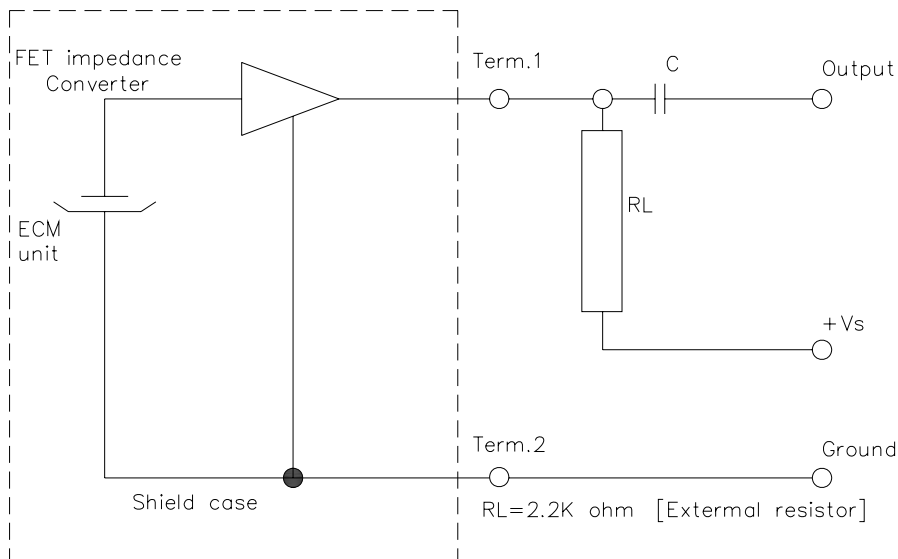
Temperature 20±2°C

Humidity 60~70%

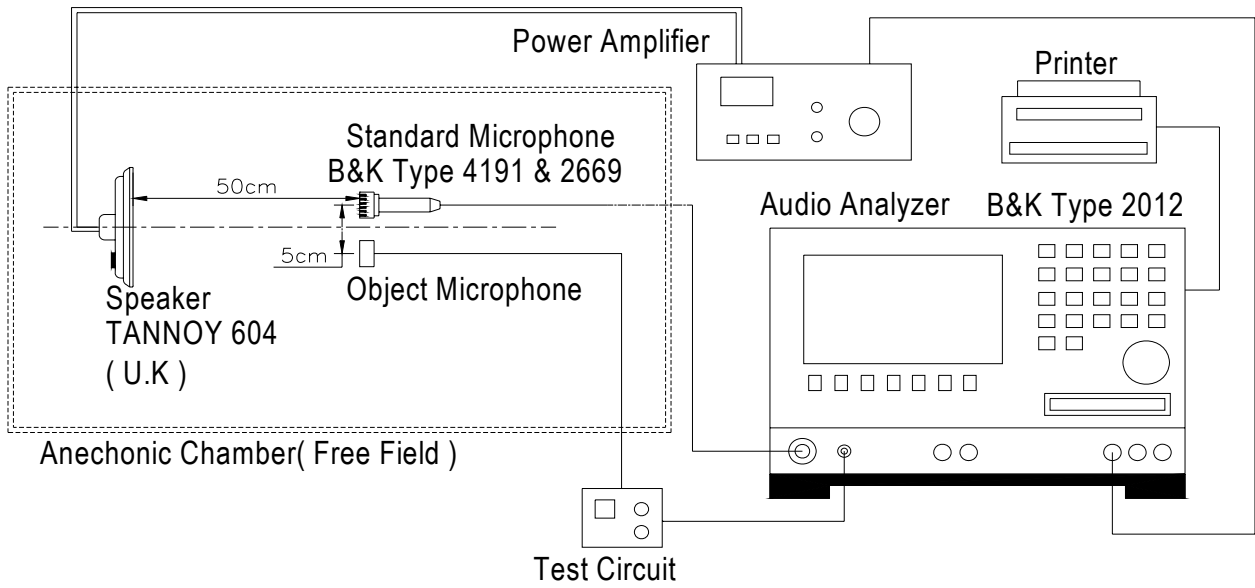
Generally Atmospheric Pressure 860~1060hpa

## 2-2. Standard Test Circuit

Vs=4.5V RL=2.2KΩ Te=20°C R.H.=60%

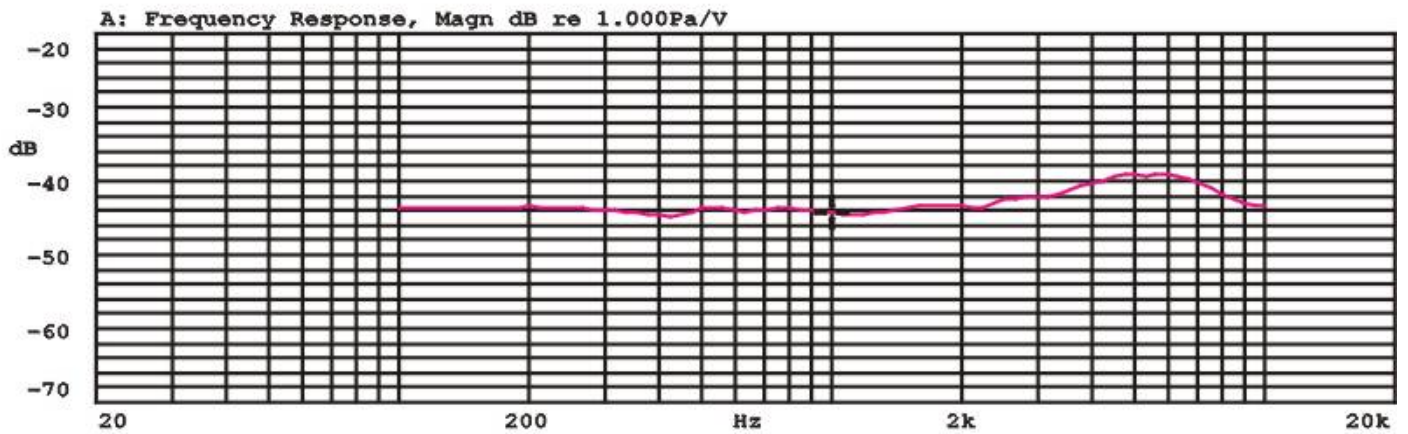


## 2-3. Standard Test Fixture



## 2-4. Frequency Response Curve

X:1.0000kHz \*Y:-44.34dB ZA:Live Curve SSR Fund.

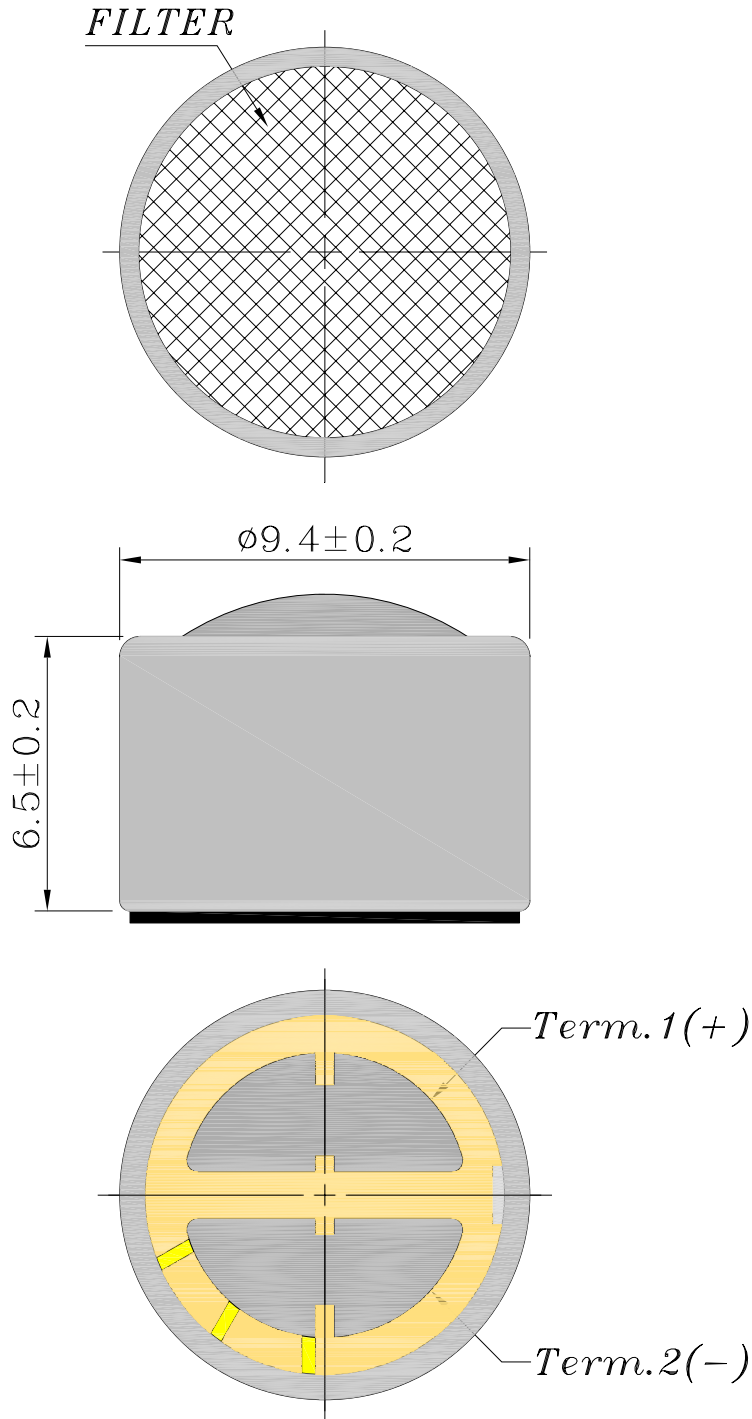


10-DEC-2008 11:07:15

Mode: MICMEAS



REV NO.	REVISION NOTE	APPROVAL	DATE
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RoHS

TITLE: MICROPHONE		DRAWN: Jason 2008-12-10	SCALE: 3:1	SHEET: 1 : 1
PART NO. AMF-094B46-NA		DESIGNED: R & D OF AAT	UNITS: mm	
DWG NO. AMF-08121001		CHECKED:	TOLERANCE $\pm 0.3$	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
REV 1		MATERIAL: *****	ONE PLACE DECIMAL $\pm$ ***	
			TWO PLACE DECIMAL $\pm$ ***	
			THREE PLACE DECIMAL $\pm$ ***	



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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 axes ..	
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.	
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 30W, and in temperature range 320 $\pm$ 10°C.
- b. Soldering time 2 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.