SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-O30J46-NT
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATIONS AM-030J46-NT

01 Electret Type	Back type
02 Sensitivity	-46±3dB (0dB=1V/Pa,1KHz)Band form 300 to 3K Hz
03 Standard Operation Voltage	2.0V
04 Output Impedance (Max)	2.2ΚΩ
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=2.0 to 1.5V
10 S/N Ratio	\geq 56 dB
11 Operating Temperature	-20~+60°C
12 Storage Temperature	-30~+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:

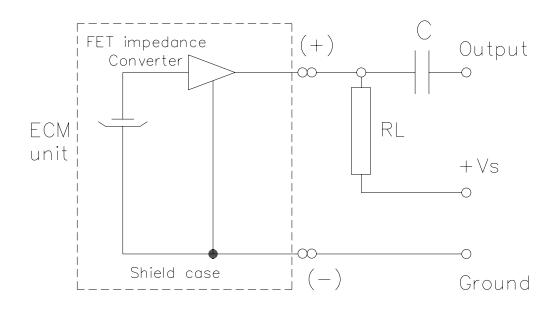
Temperature 20±2°C

Humidity 60~70%

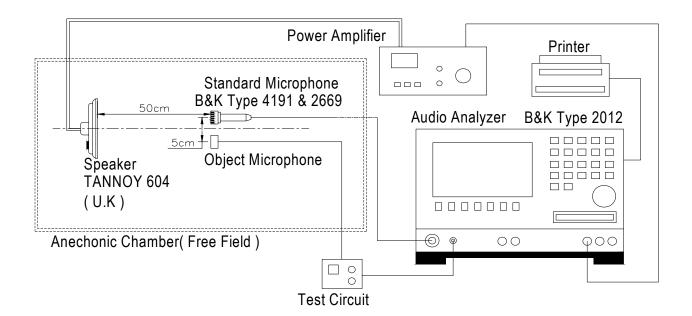
Generally Atmospheric Pressure 860~1060hpa

2-2. Standard Test Circuit

Vs=2.0V RL=2.2K Ω Te=20° \mathbb{C} R.H.=60%



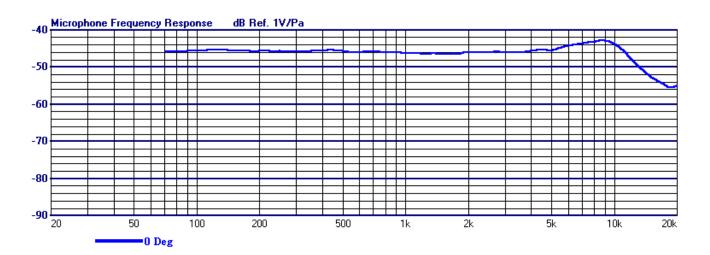
2-3. Standard Test Fixture



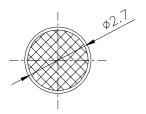
2-4. Frequency Response Curve

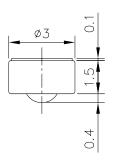
X: 1000 Hz Y: -46.3 dBV/Pa Y: -44.0 dBm/Pa

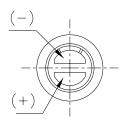
D: 0.0 dB











TITLE:	MICROPHONE		DRAWN:	Richard 01/23/2007	SCALE: 5:1 SHEET: 1 of 1
1711 011 011 11 011 12			DESIGNED:	R & D DEP.	UNITS: mm
PART NO.	AM-O3OJ46-NT	1	CHECKED:		$TOLERANCE \pm 0.2$ $UNLESS OTHERWISE SPECIFIED:$
DWG NO.	D.ELI. (O.O.)	- /	APPROVAL:		ONE PLACE DECIMAL ± ***
	DWG NO. $DTM-1294$	REV	MATERIAL:	****	TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***

A & B Components

4. RELIABILITY TEST

Item		Test Conditions	Evaluation Standard	
01	High Temp. Test	After exposure at 70°C for 96 hours		
02	Low Temp. Test	After exposure at -30°C for 96 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 moniutes, at 5 cycles	After any tests , the sensitivity	
04	Humidity Test	After exposure at 40° C and $90\pm5\%$ relative humidity for 96 hours.	to be within ±3dB of initial sensitivity after 3 hours of conditioning at 20°C and shall keep their initial operation and appearance.	
05	Vibration Test	10~50Hz for 1minute full amplitude 1.52mm, for 2 horous at three axises .	арреаганое.	
06	Drop test	The microphone unit without packaged must be subjected to each 3 drops at three axises 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 300±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.