SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-N60G51-NT
Customer	
Approval	

Approved By	Checked By	Made By		



A & B Components

http://www.speaker-tw.com

1. SPECIFICATIONS AM-N60G51-NT

01 Electret Type	Back type
02 Sensitivity	-51±4.5dB (0dB=1V/Pa,1KHz)Band form 300 to 3K Hz
03 Output Impedance (Max)	2.2ΚΩ
04 Directivity	Noise Cancelling
05 Frequency Range	70 - 20K Hz
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=2.5 to 2.0V
10 S/N Ratio	> 55dB
11 Operating Temperature	-20~+60°C
12 Storage Temperature	-30~+70℃

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:

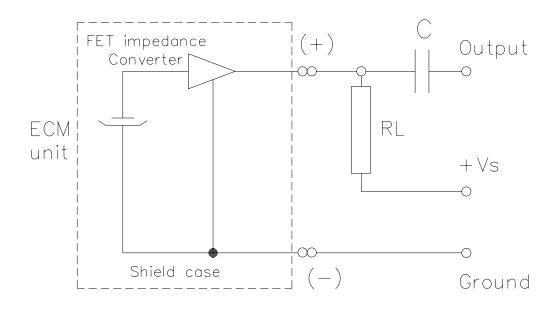
Temperature 20±2°C

Humidity 60~70%

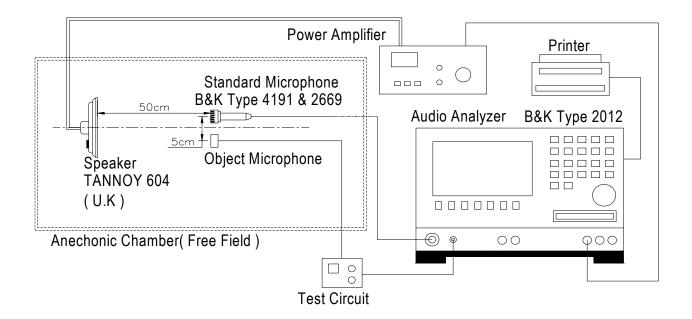
Generally Atmospheric Pressure 860~1060hpa

2-2. Standard Test Circuit

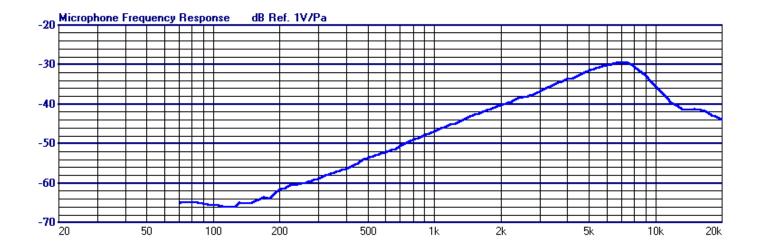
Vs=2.0V RL=2.2K Ω Te=20 $^{\circ}$ C R.H.=60 $^{\circ}$



2-3. Standard Test Fixture



2-4. Frequency Response Curve





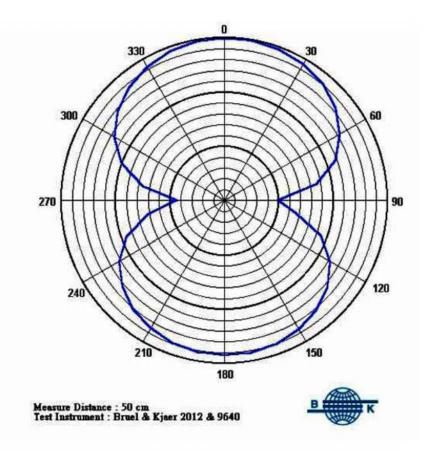
2-5. Noise Cancelling Characteristic

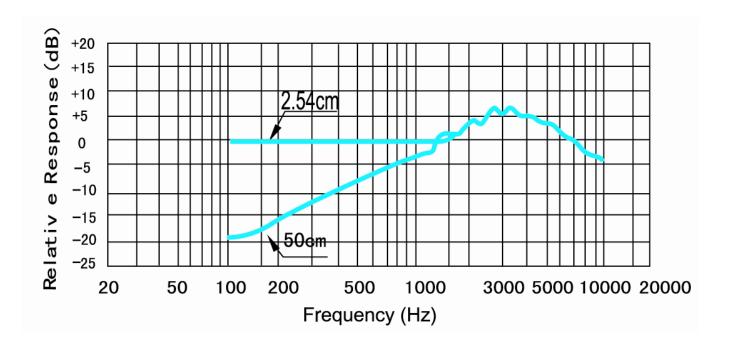
Frequency: 1000 Hz

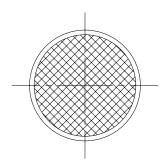
Microphone Directional Characteristic

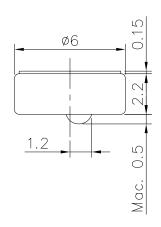
Range: 30 dB

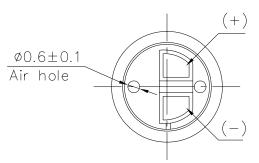
Frequency: 1000 Hz Source Level: 0.1 Pa











TITLE:	MICROPHONE		DRAWN:	Richard 08/18/2006	SCALE: 5:1	SHEET: 1 of 1
1,1101401110142			DESIGNED:	R & D DEP.	01,11,6.	mm
PART NO.	AM-N60G51-NT	1	CHECKED:		TOLERANCE	' ± 0.2 ERWISE SPECIFIED
DWG NO.		- /	APPROVAL:		ONE PLACE	$DECIMAL \pm ***$
DWG NO.	DTM-1300	REV	MATERIAL:	****		DECIMAL ± *** CE DECIMAL ± ***

A & B Components

4.RELIABILITY TEST

Item		Test Conditions	Evaluation Standard		
01	High Temp. Test	After exposure at 70°C for 100 hours, and expose to room temperature for 6 hours, sensitivity to be within ±3dB from initial sensitivity.			
02	Low Temp. Test	After exposure at -30°C for 100 hours, and expose to room temperature for 6 hours, sensitivity to be within ±3dB from initial sensitivity.			
03	Temp. Cycle Test	After exposure at 70° C for 1 hour, at room temp. for 1 hour, at -30°C for 1 hour, at room temp. for 1 hour, at 10 cycles, and expose to room temp. for 6 hours, sensitivity to be within ± 3 dB from initial sensitivity.	After any tests , the sensitivity to be within ±3dB of initial sensitivity after 3 hours of		
04	Humidity Test	After exposure at 40° C and $90\pm5\%$ relative humidity for 240 hours, and expose to room temperature for 6 hours, sensitivity to be within ±3 dB from initial sensitivity.	conditioning at 20°C and shall keep their initial operation and appearance.		
05	Vibration Test	The microphone unit must be subjected to each 30 minutes vibrations at three axis 3 mm dynamic rang. 1000cycles/minute.			
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.	Application of the "pip" type		

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±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.