SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE		
Part No.	AM-N60K47-NT		
Customer Approval			

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

SPECIFICATIONS				
01 Electret Type	Foil type			
02 Sensitivity	-47±3dB (0dB=1V/Pa,1KHz)			
03 Output Impedance (Max)	2.2K Ω			
04 Directivity	Noise Cancelling			
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			

Standard Conditions:

Generally Temperature 15~35°C

Generally Humidity 45~85%

Generally Atmospheric Pressure 860~1060hpa

Basic Test Conditions:

Temperature 20±2°C

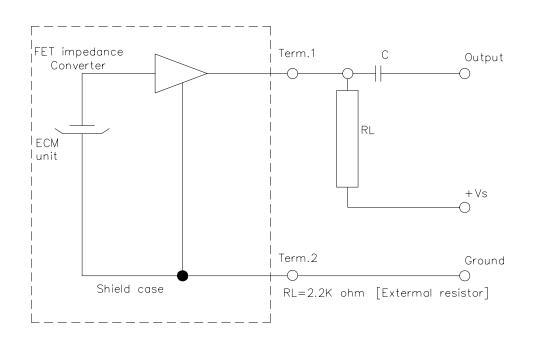
Humidity 60~70%

Generally Atmospheric Pressure 860~1060hpa

Electrical Characteristics Test Condition:

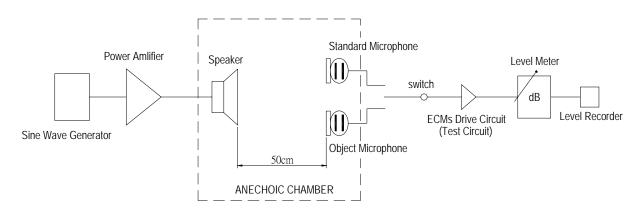
Vs=2.0V RL=2.2K Ω Te=20 $^{\circ}$ R.H.=60%

Standard Test Circuit

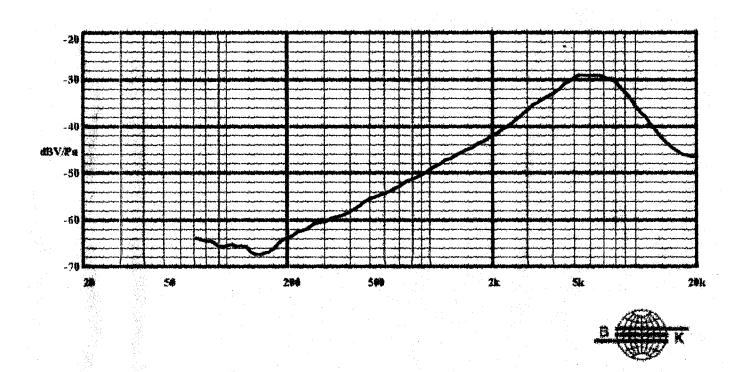


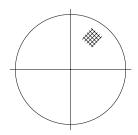
Standard Test Condition Of Microphone

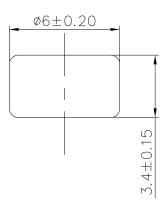
MEASUREMENT OF SENSITIVITY

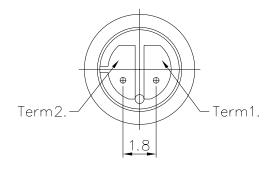


Frequency Response Curve









TITLE:	MICROPHONE		DRAWN:	Richard	05/14/2001	SCALE: 5/1	SHEET: 1	': 1
1.11 01 (01 11 01) 1			DESIGNED.	R & D		011116.	mm	
PART NO.	AM-N60K47-NT	1	CHECKED:			TOLERANCE		
	AM IVOONAT IVI	/			UNLESS OTHE			
DWG NO.		1 "	APPROVAL:	•		ONE PLACE		
DWG WO .	DTM-1067	REV	MATERIAL:	****	*	TWO PLACE I THREE PLACE	DECIMAL ± CE DECIMAL	

A & B Components

RELIABILITY TEST

AM-N60K47-NT

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 -25°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 -25° 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±5% relative humidity for 240 hours, and expose to room temperature for 6 hours, sensitivity to be within ±3dB 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 "pin" type