SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-O60J44-NC
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

SPECIFICATIONS					
01 Electret Type	Back type				
02 Sensitivity	-44±3dB (0dB=1V/Pa,1KHz)				
03 Output Impedance (Max)	2.2K Ω				
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				

Standard Conditions:

Generally Temperature 15~35°C

Generally Humidity 45~85%

Generally Atmospheric Pressure 860~1060hpa

Basic Test Conditions:

Temperature 20±2°C

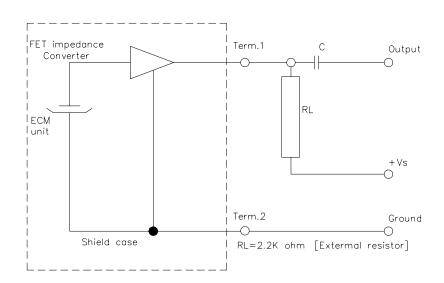
Humidity 60~70%

Generally Atmospheric Pressure 860~1060hpa

Electrical Characteristics Test Condition:

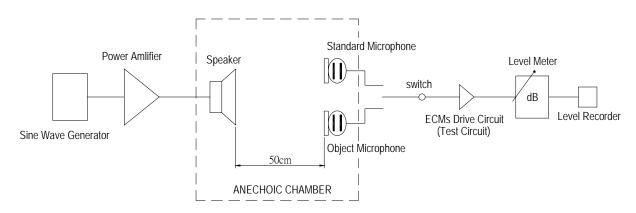
Vs=2.0V RL=2.2K Ω Te=20 $^{\circ}$ C R.H.=60%

Standard Test Circuit

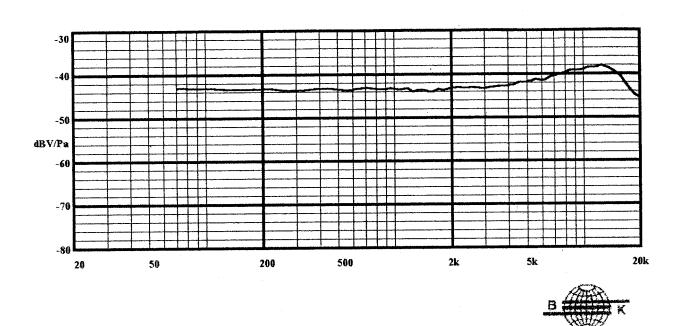


Standard Test Condition Of Microphone

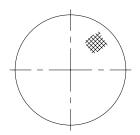
MEASUREMENT OF SENSITIVITY

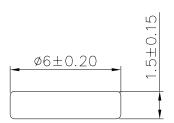


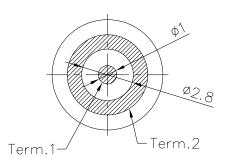
Frequency Response Curve



REV NO. REVISION NOTE APPROVAL DATE







TITLE:	LIIGD O DIII O LI		DRAWN:	Richard	00/12/2001	SCALE: 5/1	CUEET. 1	1 . 1
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D4.D/II. 110			DESIGNED.	R & D	DEP.	011116.	$\frac{mm}{n}$	
PART NO .	AM - 060J44 - NC	1	CHECKED:					
DWG NO.		/	APPROVAL:			ONE PLACE		
DWG NO.	DTM-1098	REV	MATERIAL:	***	*	TWO PLACE THREE PLACE	DECIMAL ± CE DECIMAL	

A & B Components

RELIABILITY TEST

AM-060J44-NC

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 axises 3 mm dynamic rang. 1000cycles/minute.	
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.	