SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-O40J46-NT
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

SPECIFICATIONS					
01 Electret Type	Back type				
02 Sensitivity	-46±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 1.5 V				
10 S/N Ratio	> 56dB				
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

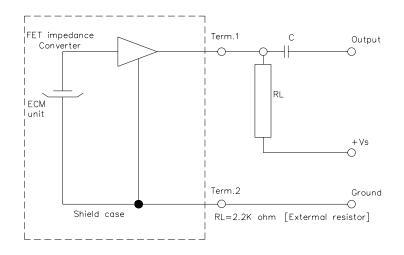
Humidity 60~70%

Generally Atmospheric Pressure 860~1060hpa

Electrical Characteristics Test Condition:

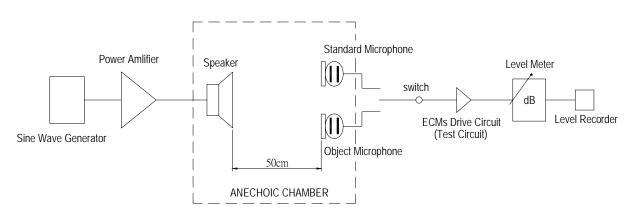
Vs=2.0 V RL=2.2 K Ω Te=20 $^{\circ}$ C R.H.=60%

Standard Test Circuit



Standard Test Condition Of Microphone

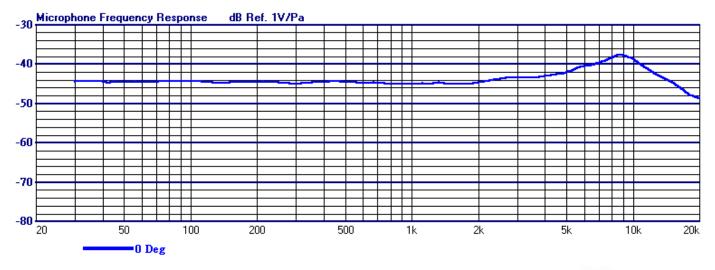
MEASUREMENT OF SENSITIVITY



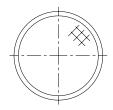
Frequency Response Curve

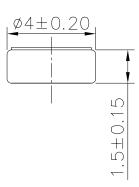
X:1000 Hz Y:-45.1 dBY/Pa

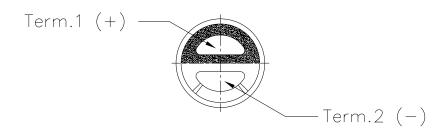
Y:-42.9 dBm/Pa D:0.0 dB











TITLE:	MICROPHONE		DRAWN:	Richard 08/06/2003	SCALE: 5:1 SHEET: 1 of 1
111101101110111			DESIGNED:	$n \propto D D D D D D D D D D D D D D D D D D $	UNITS: mm
PART NO.	AM - 040J46 - NT	1	CHECKED:		$TOLERANCE \pm 0.2$ UNLESS OTHERWISE SPECIFIED:
DWG NO.	D		APPROVAL:		ONE PLACE DECIMAL ± ***
DTM-1294	REV	MATERIAL:	****	TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± **	

A & B Components

RELIABILITY TEST

AM-O40J46-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.	After any tests, the sensitivity to be within ±3dB of initial sensitivity after 3 hours of		
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.			
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.	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		