SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-O45M40-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	-40±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	> 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

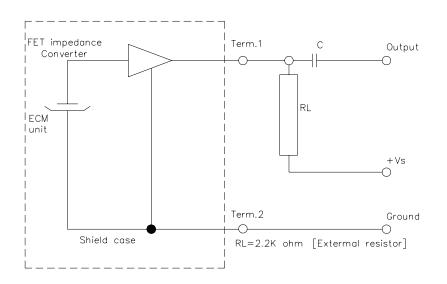
Humidity 60~70%

Generally Atmospheric Pressure 860~1060hpa

Electrical Characteristics Test Condition:

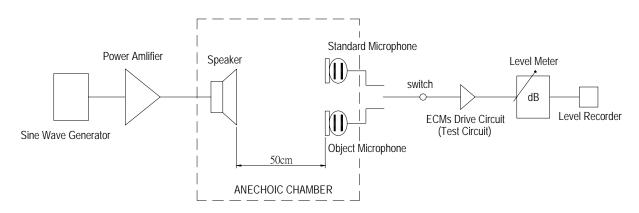
Vs=2.0V RL=2.2K Ω Te=20 $^{\circ}$ C R.H.=60%

Standard Test Circuit

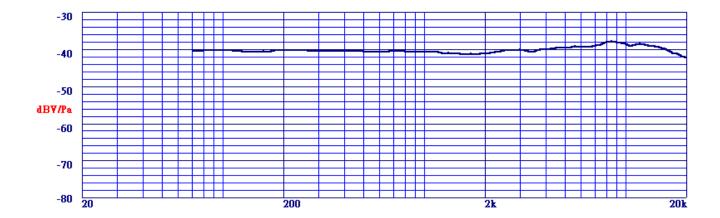


Standard Test Condition Of Microphone

MEASUREMENT OF SENSITIVITY

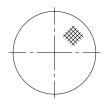


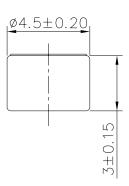
Frequency Response Curve

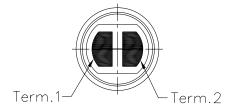




REV NO. REVISION NOTE APPROVAL DATE







TITLE:	MICROPHONE		DRAWN:	Richard	05/09/2002	SCALE: 5:1	SHEET:	1 of 1
1111011011110111			DESIGNED.	R & D	DDI.	UNITS:	mm	
PART NO.	AM - O45M40 - NT	1	CHECKED:			TOLERANCE UNLESS OTH		ecirien.
DWG NO.		/	APPROVAL:			ONE PLACE	$DECIMAL \pm$	***
DWG NO.	DTM - 1243	REV	MATERIAL:	****	*	TWO PLACE THREE PLA	DECIMAL ± CE DECIMAL	

A & B Components

RELIABILITY TEST

AM-O45M40-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.	ikeen ineli lillial obelalion and l
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