SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-O60S42-CP
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

SPECIFICATIONS				
01 Electret Type	BACK type			
02 Sensitivity	-42±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

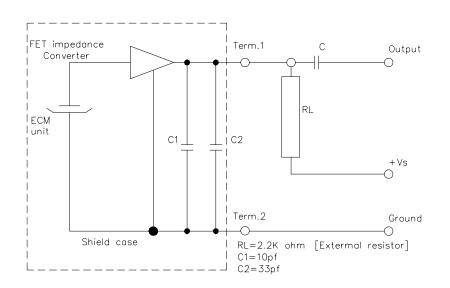
Humidity 60~70%

Generally Atmospheric Pressure 860~1060hpa

Electrical Characteristics Test Condition:

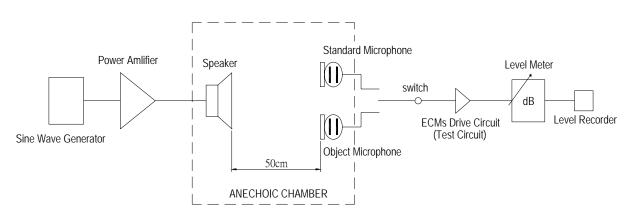
Vs=2.0V RL=2.2K Ω Te=20 $^{\circ}$ C R.H.=60%

Standard Test Circuit



Standard Test Condition Of Microphone

MEASUREMENT OF SENSITIVITY

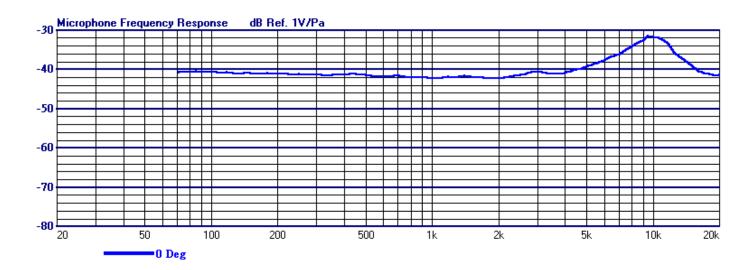


Frequency Response Curve

X:1000 Hz Y:-42.1 dBV/Pa

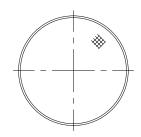
Y: -39.9 dBm/Pa

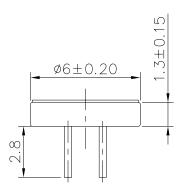
 $D:0.0\;dB$

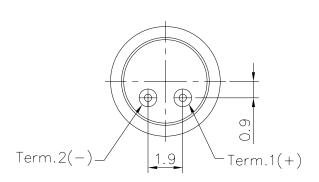




REV NO. REVISION NOTE APPROVAL DATE







TITLE:	MICROPHONE		DRAWN:	Richard	12/25/2003	SCALE: 5:1	SHEET:	1 of 1
1111 01 401 11 01 41			DESIGNED.	R & D	DEP.	611116.	mm	
PART NO.	AM - 060S42 - CP	1	CHECKED:			TOLERANCE		ndinina
	<u> </u>		ADDDOUAL			UNLESS OTH		
DWG NO.	DTM 4050	"	APPROVAL:			ONE PLACE	DECIMAL ±	
	DTM-1256	REV	MATERIAL:	****	*	TWO PLACE		

A & B Components

RELIABILITY TEST

AM-060S42-CP

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.		