SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE	
Part No.	AM-O97A50-NWH	
Customer Approval		

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATIONS

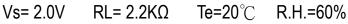
01 Electret Type	Foil type		
02 Sensitivity	-50±3dB (0dB=1V/Pa,1KHz) Band form 300 to 3K Hz		
03 Output Impedance (Max)	2.2ΚΩ		
04 Directivity	Omnidirectional		
05 Frequency Range	70 - 20KHz		
06 Max.Operation Voltage	10V		
07 Standard Operation Voltage	2.0V		
08 Current Consumption	Max.0.5mA		
09 Sensitivity Reduction	Within -3dB 0dB=1V/Pa,1KHz Vs=2.0 to 1.5V		
10 S/N Ratio	> 58dB		
11 Operating Temperature	-20∼ +60°C		
12 Storage Temperature	-30~+70°C		

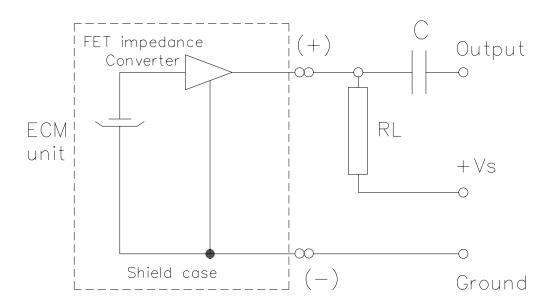
2. MEASURING METHOD

2-1. Test Condition

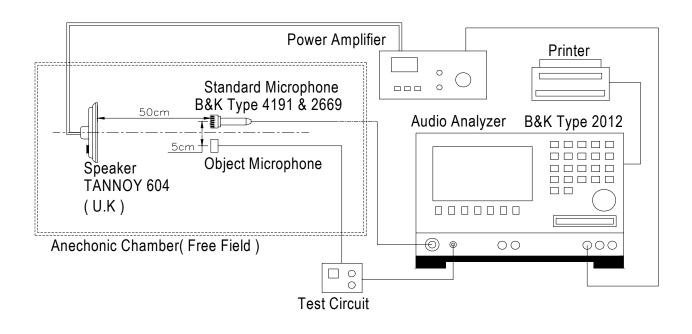
Standard Conditions: Generally Temperature 15~35°C Generally Humidity 45~85% Generally Atmospheric Pressure 860~1060hpa Basic Test Conditions: Temperature 20±2°C Humidity 60~70% Generally Atmospheric Pressure 860~1060hpa

2-2. Standard Test Circuit

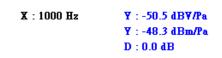


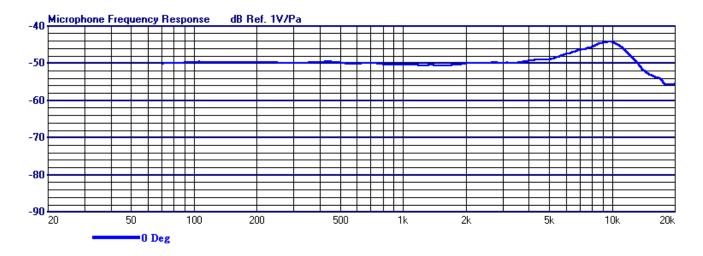


2-3. Standard Test Fixture



2-4. Frequency Response Curve







REV .	NO. REVI	SION NOTE	APPROVAL DATE
	<u>WATERPROOF</u> . : Ø9.7 * 6.5 mm . E : UL 1571 , 28 AW	HOLDER	6 ^{.9}
	2.5±0.5 Red(+) Black(-)	151±5	ISOLATION
	CROPHONE -097A50-NWH DTM-1279 A & B (DRAWN: Richard 06/20/2000 DESIGNED: R & D DEP. CHECKED: APPROVAL: MATERIAL: *****	SCALE: 3:1 SHEET: 1 : 1 UNITS: mm TOLERANCE ± 0.2 UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***

4. RELIABILITY TEST

Item		Test Conditions	Evaluation Standard	
01	High Temp. Test	After exposure at 70 $^\circ\!\mathrm{C}$ for 200 hours		
02	Low Temp. Test	After exposure at -30 $^\circ\!\mathrm{C}$ for 200 hours	After any tests , the sensitivity to be within ±3dB of initial	
03	Temp. Cycle Test	After exposure at 70° C for 30 minutes, at room temp. for 10 minutes, at -30°C for 30 minutes, at room temp. for 10 moniutes, at 5 cycles		
04	Humidity Test	After exposure at $40^\circ\!C$ and $90\pm5\%$ relative humidity for 200 hours.		
05	Vibration Test	10~50Hz for 1minute full amplitude 1.52mm ,for 2 horous at three axises .		
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.		

5. SOLDERING CONDITION

Every Mic. has installed FET., The FET. is easy broken by strong heat and static electricity, so when you working on, pls be attention that :

- a. Recommend using constant branding iron in 15 ~ 30W, and in temperature range 300 ~ 320°C.
- b. Soldering time not over 3 seconds.
- c. Don't stay any hole or dust when soldering.
- d. To avoid the Mic. be broken by static electricity, the people and working station should install prevent static electricity equipment.