SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE	
Part No.	AG-1500	
Customer		
Approval		

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATIONS AG-1500

01 Electret Type	Back type		
02 Sensitivity	-42±3dB (0dB=1V/Pa,1KHz)Band form 300 to 3K Hz		
03 Output Impedance (Max)	2.2ΚΩ		
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	-20~+60°C		
12 Storage Temperature	-30~+70℃		

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:

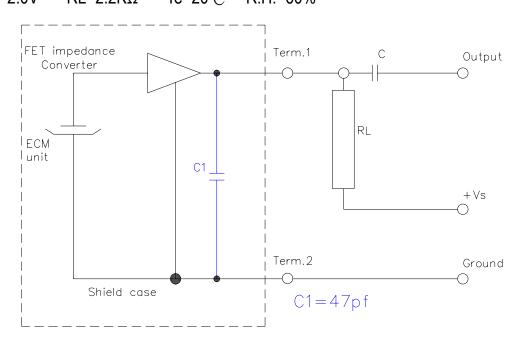
Temperature 20±2°C

Humidity 60~70%

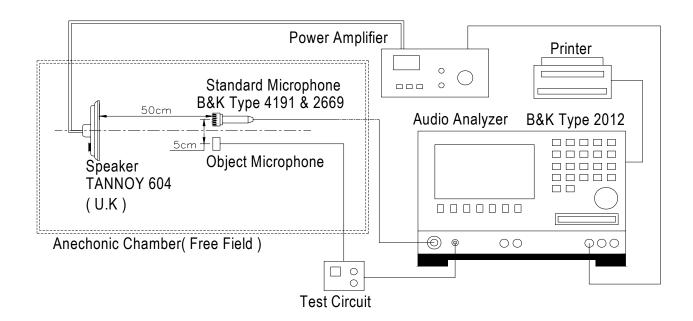
Generally Atmospheric Pressure 860~1060hpa

2-2. Standard Test Circuit

Vs=2.0V RL=2.2K Ω Te=20°C R.H.=60%



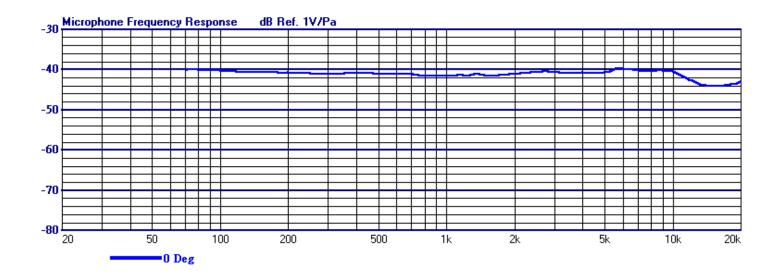
2-3. Standard Test Fixture



2-4. Frequency Response Curve

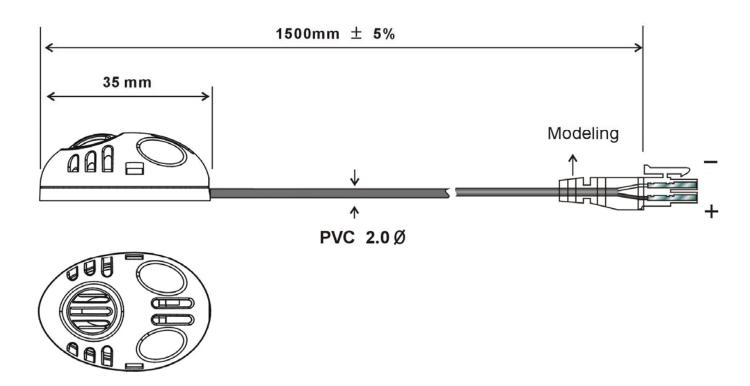
X:1000 Hz Y:-41.6 dBV/Pa

Y:-39.4 dBm/Pa D:0.0 dB

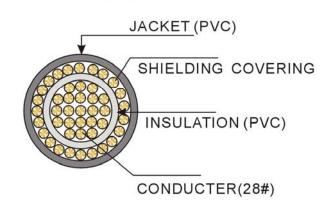


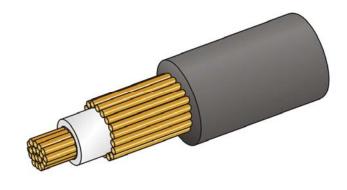


DRAWING

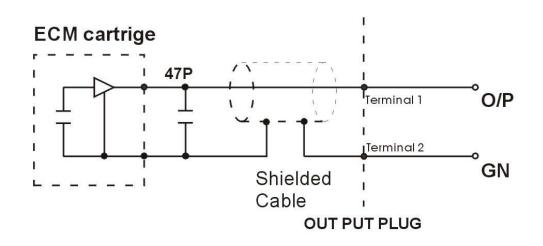


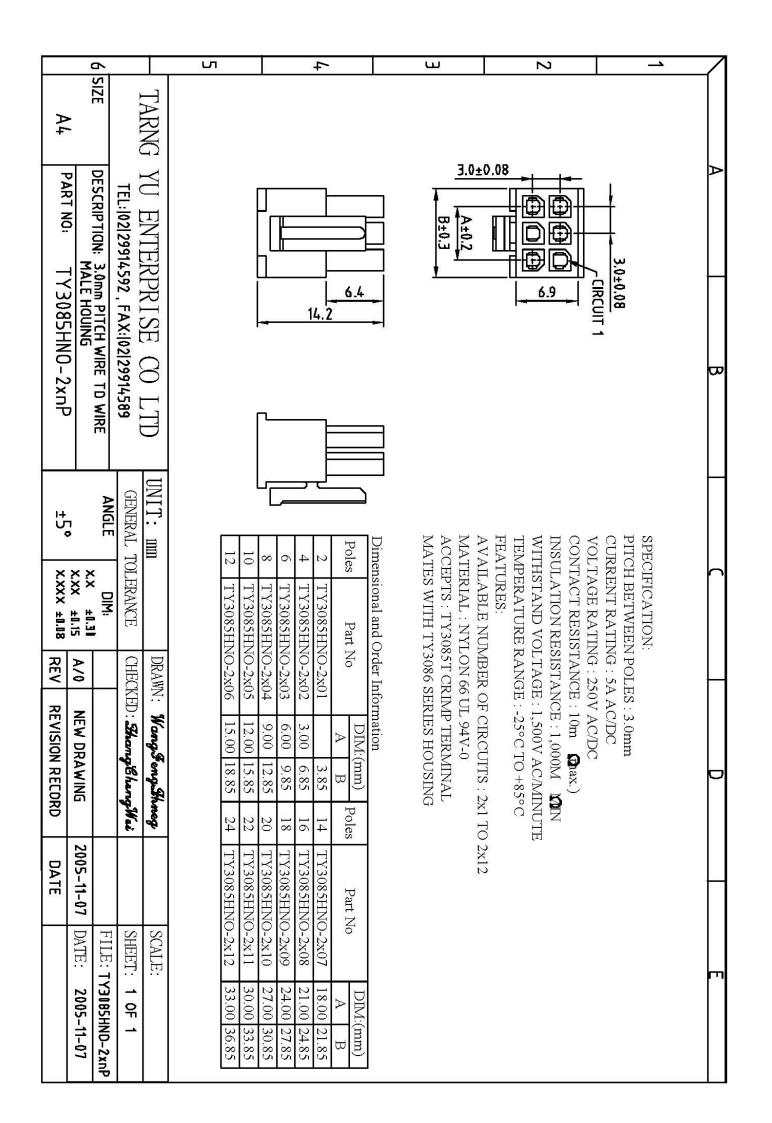
PVC OD 2.0 Ø SINGLE INSULATED WIRE











4. RELIABILITY TEST

Item		Test Conditions	Evaluation Standard
01	High Temp. Test	After exposure at 70°C for 200 hours	
02	Low Temp. Test	After exposure at -30°C for 200 hours	
03	Temp. Cycle Test	After exposure at 70°C for 30 minutes, at room temp. for 10 minutes, at -25°C for 30 minutes, at room temp. for 10 moniutes, at 5 cycles	After any tests , the sensitivity
04	Humidity Test	After exposure at 40° C and $90\pm5\%$ relative humidity for 200 hours.	to be within ±3dB of initial sensitivity after 3 hours of conditioning at 20°C and shall keep their initial operation and appearance.
05	Vibration Test	10~50Hz for 1minute full amplitude 1.52mm, for 2 horous at three axises .	арреаганое.
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 240 ~ 270°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.