SPECIFICATION FOR APPROVAL

Product	ELECTRET CONDENSER MICROPHONE
Part No.	AM-U40H50-CT
Customer	
Approval	

Approved By	Checked By	Made By



http://www.speaker-tw.com

1. SPECIFICATIONS

01 Electret Type	Back type
02 Sensitivity	-50±3dB (0dB=1V/Pa,1KHz
03 Output Impedance (Max)	2.2ΚΩ
04 Directivity	Unidirectional
05 Frequency Range	100 - 16K Hz
06 Max. Operation Voltage	10V
07 Standard Operation Voltage	3.0V
08 Current Consumption	Max.0.5mA
09 Sensitivity Reduction	Within -3dB 0dB=1V/Pa,1KHz Vs=3.0 to 2.5V
10 S/N Ratio	> 55dB
11 Operating Temperature	-20~+60°C
12 Storage Temperature	-30~+70°C

2. MEASURING METHOD

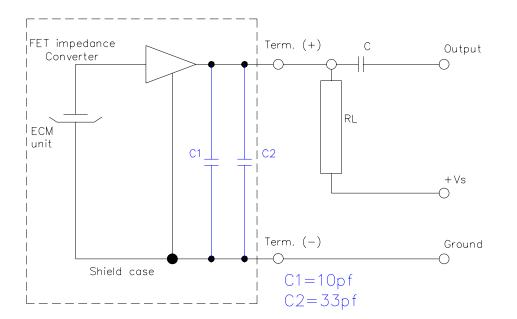
2-1. Test Condition

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

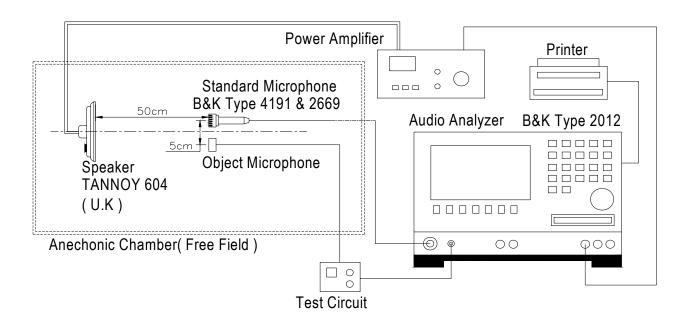
2-2. Standard Test Circuit

Vs=3.0V RL=2.2KΩ

Te=20°C R.H.=60%

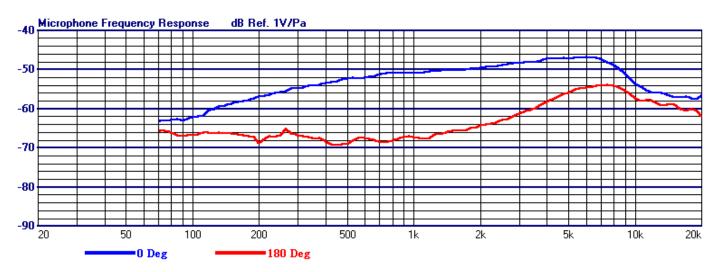


2-3. Standard Test Fixture



2-4. Frequency Response Curve







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WC NO ONE PLACE DECIMAL ± 3			<i>CHECKED:</i> <i>APPROVAL:</i>	UNLESS OTHER ONE PLACE D	RWISE SPECIFIE ECIMAL ± ***
IWG NO. DTM-1294 Image: Approval: ONE Place decimal ± 4 Two Place decimal ± 4 Two Place decimal ± 4 Three Place decimal ± 4	WG NU.	DTM-1294		TWO PLACE D	ECIMAL ± ***

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			
03	Temp. Cycle Test	After exposure at 70° C for 30 minutes, at room temp. for 10 minutes, at -25 $^{\circ}$ C for 30 minutes, at room temp. for 10 moniutes, at 5 cycles	After any tests , the sensitivity		
04	Humidity Test	humidity for 200 hours	keep their initial operation and appearance.		
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 270 ~ 300°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.