

**MESSRS.**

## SPECIFICATION FOR APPROVAL

<b>Product</b>	<b>ELECTRET CONDENSER MICROPHONE</b>
<b>Part No.</b>	<b>AMB-O40J36-2CBH</b>
<b>Customer Approval</b>	
<b>Customer Part No.</b>	

<b>Approved By</b>	<b>Checked By</b>	<b>Made By</b>
<div>工程 BOB CHEN APR-29-2020</div>	<div>工程 ZACK KUO APR-29-2020</div>	<div>工程 HANK CHEN APR-29-2020</div>



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**RoHS**



**REV.4**

## 1. SPECIFICATIONS

AMB-O40J36-2CBH

01	Sensitivity	-36±3dB (0dB=1V/Pa,1KHz)
02	Standard Operation Voltage	2.0 V
03	Output Impedance	2.2 KΩ
04	※Directivity	Omni directional
05	Frequency Range	100 - 10K Hz
06	Max. Operation Voltage	10V
07	Current Consumption	Max.0.5mA
08	Sensitivity Reduction	Within -3dB,0dB=1V/Pa,1KHz ,Vs=2.0 reduced to 1.5V
09	S/N Ratio	≥65dB
10	Sound Pressure Level	110 dB
11	Operating Temperature	-20~+60℃
12	Storage Temperature	-25~+70℃

※ For noise-cancelling use, please refer to unidirectional or bidirectional types.

## 2. MEASURING METHOD

### 2-1. Test Condition

#### Standard Conditions:

Generally Temperature 15~35℃

Generally Humidity 45~85%

Generally Atmospheric Pressure 860~1060hpa

#### Basic Test Conditions:

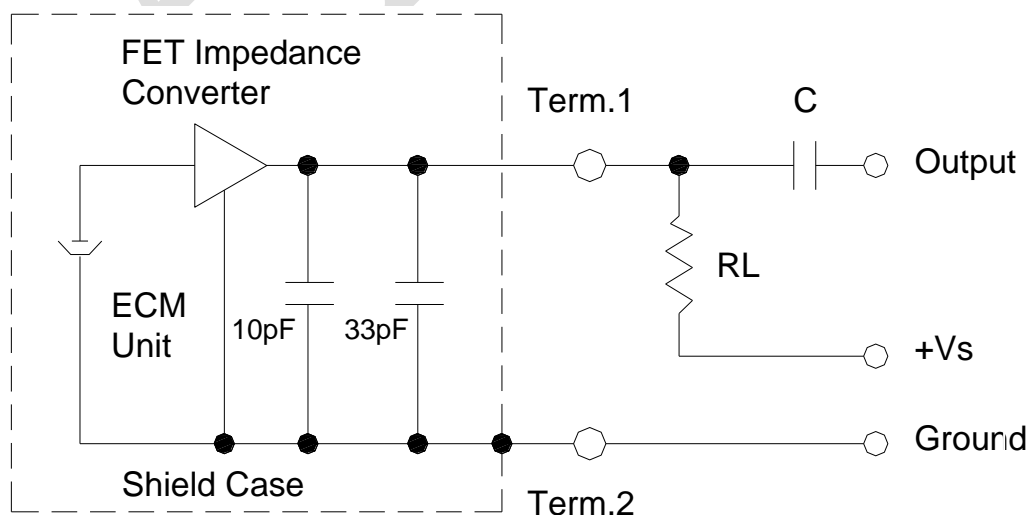
Temperature 20±2℃

Humidity 60~70%

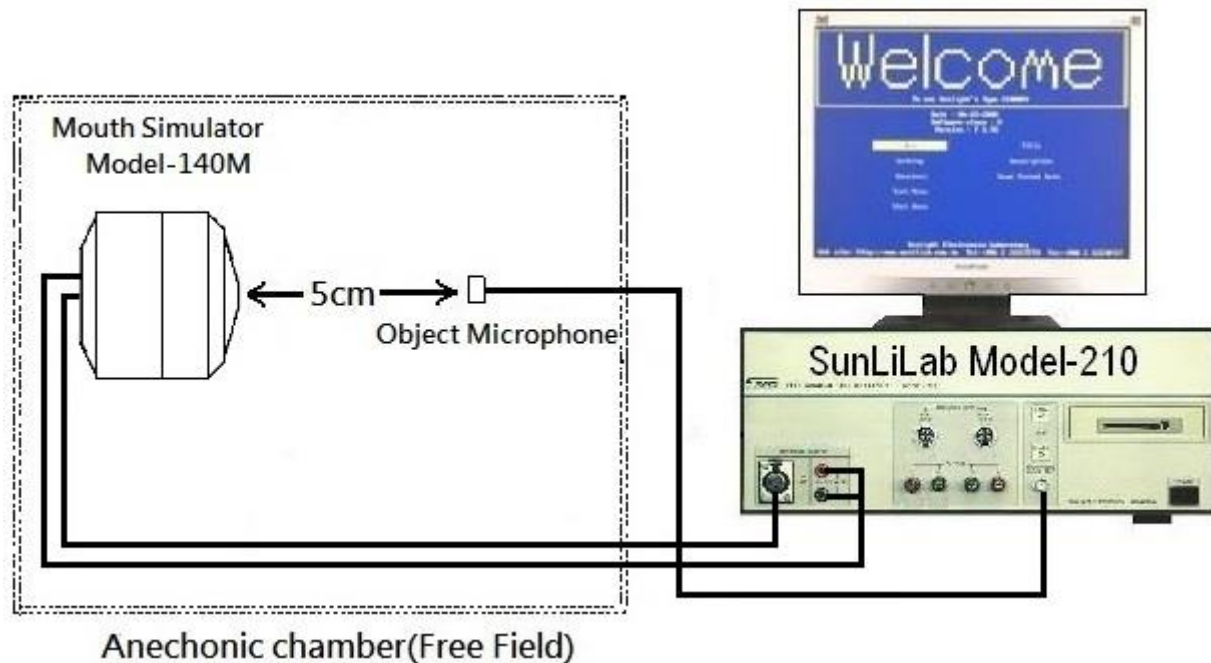
Generally Atmospheric Pressure 860~1060hpa

### 2-2. Standard Test Circuit

Vs=2.0V    RL=2.2KΩ    Te=20℃    R.H.=60%



## 2-3. Standard Test Fixture



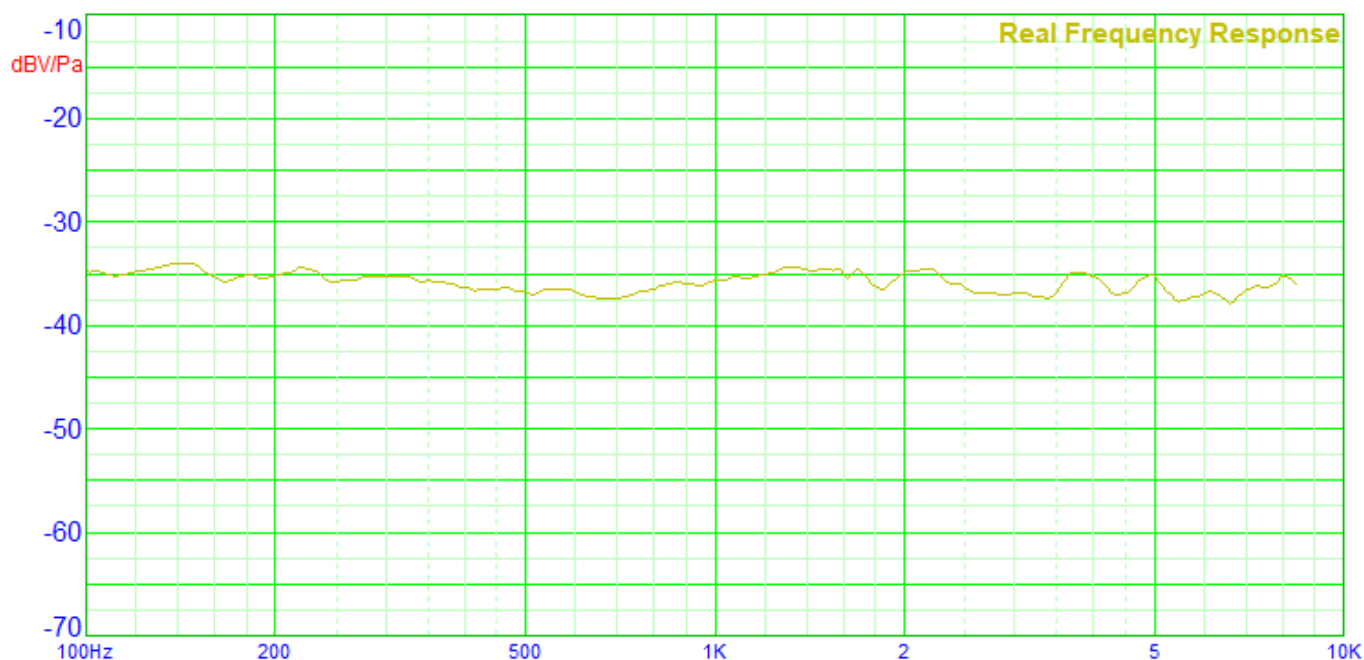
## 2-4. Frequency Response Curve

### Type 2100T [Test Menu] Microphone Frequency Response Curve Test

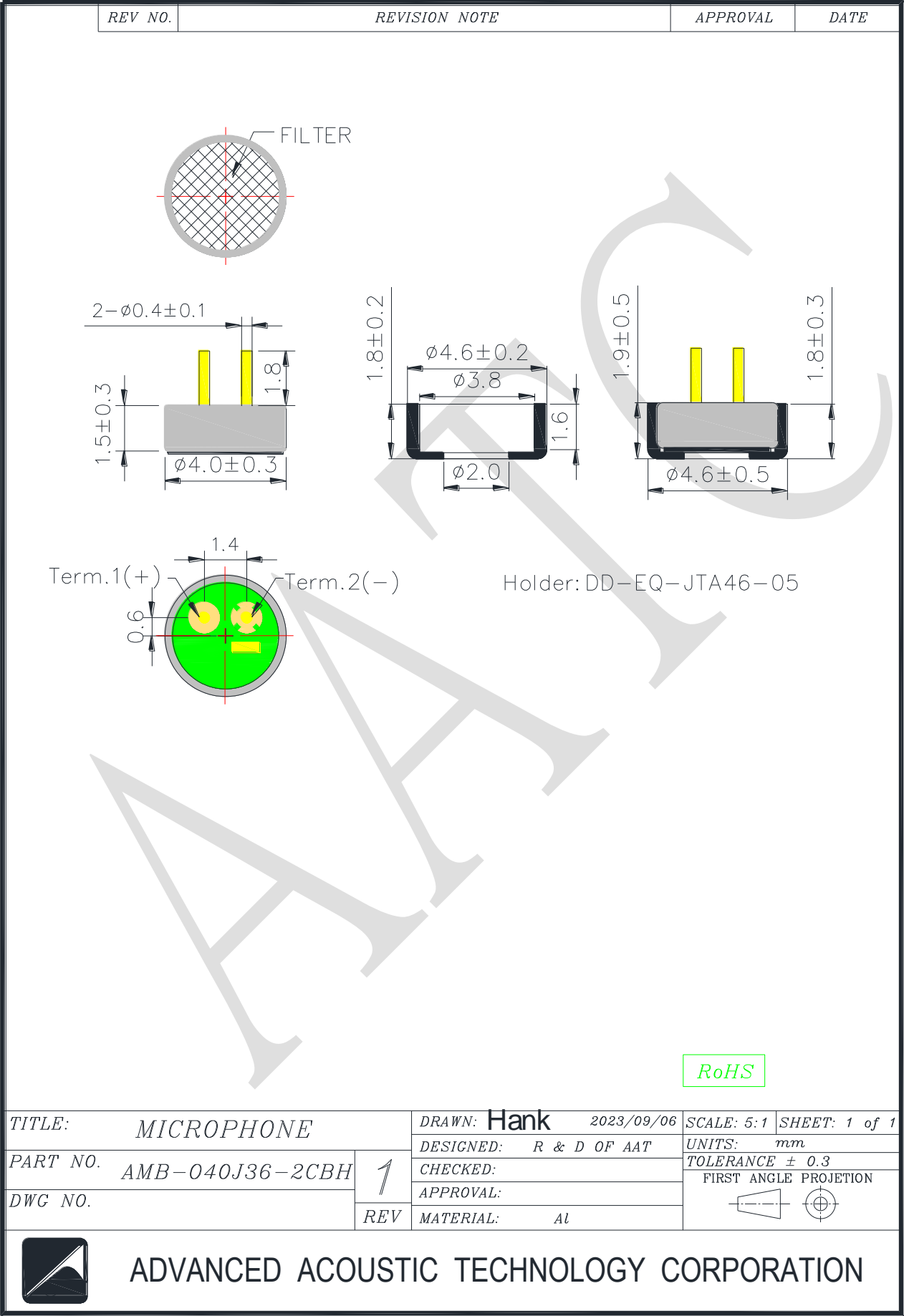
Firm:1460 Object:1460 2100T F 3.0 04-30-2020 10:00:05  
Real 1000Hz sens.= -35.7dBV/Pa = -55.7dBV/ $\mu$ bar Pass  
F. R.:Pass (1KHz Normalize) DCV= 2.01V Load R= 2.21K $\Omega$   
Start F.= 100Hz Stop F.= 8459Hz Step size: 1/48 Oct.

[100Hz vs 1KHz : .9dB]

Microphone Frequency Response Curve Test



3. DIMENSIONS



## 4. RELIABILITY TEST

Item		Test Conditions	Evaluation Standard
01	High Temp. Test	After exposure at 70°C for 96 hours	After any tests , the sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20°C and shall keep their initial operation and appearance.
02	Low Temp. Test	After exposure at -25°C for 96 hours	
03	Temp. Cycle Test	A 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 minutes, at 5 cycles.	
04	Humidity Test	After exposure at 40°C and 90 $\pm$ 5% relative humidity for 96 hour.	
05	Vibration Test	10~50Hz for 1 minute full amplitude 1.52mm for 2 hours at three axis.	
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.	

### Criterion :




- AATC reserves the right to change product material without prior notice, guaranteeing the same specification. Materials are subject to change due to environmental regulations, sourcing, and process improvements.**

材料可能由於環境法規，物料及製程工藝精進而發生變動，AATC 保證相同的規格，並有權保留更改產品材料的權利，恕不另行通知。

- If you need more information, please contact our technology department, thank you.**

如您需要更多信息，請聯繫我們的技術部門，謝謝。

5. PACKING

	DRAWING	QTY(PCS)	SIZE(MM)	MATERIAL	MARKING
PACKING		100	98×98×9.5	PET	
MIDDLE		2000	250×350	Anti-static bag	
OUTER BOX		32000	380×370×250	Paper	