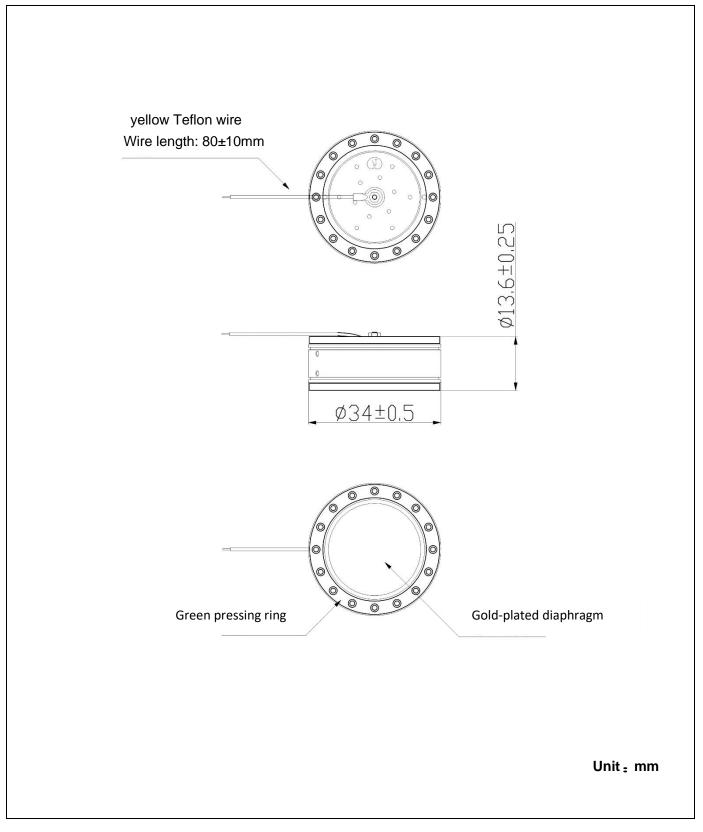
Specification Approval Sheet(External) Version: A0						
Customer :	Customer :					
Product Model	Product Model : JLI-3413AU W2-GP					
Customer Part No. :	Customer Part No. :					
					-	
Dimensions : ¢	Dimensions : Ф34*H13.6mm					
Sensitivity : -40±2dB (0dB=1V/Pa, at1KHz) 34 electret jig						
Document No. : 8.34.00358						
Prepared by Approved by Signed back by custome			customer	]		
Changed by Model	Date	Changes made Versio		Version	-	
	October 11, 2022	2 First release AG		A0		

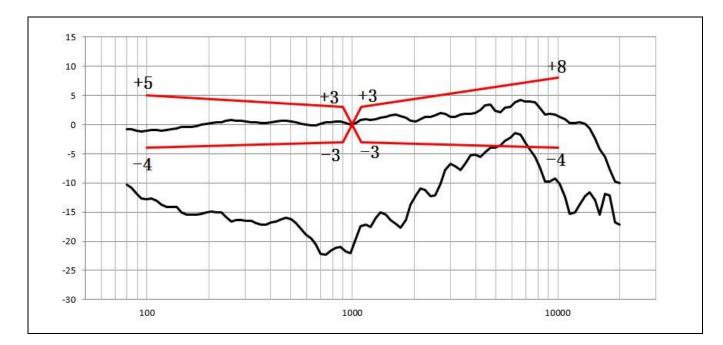




# 2. Criteria for Test Parameters

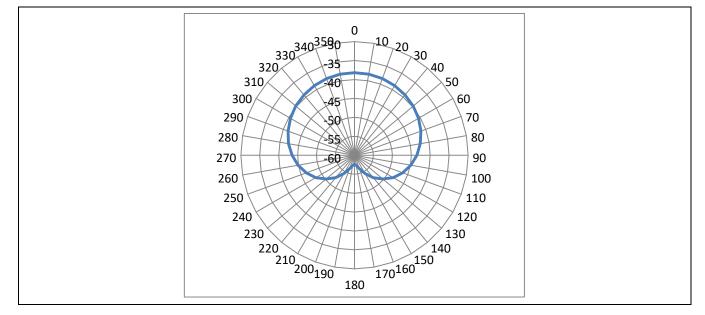
<b>T</b>			Criteria			
Test Item	em Symbol Test Condition		Min	Mid	Max	Unit
Sensitivity (unidirectional)	S	f=1KHz ,S.P.L=1Pa 0dB=1V/Pa	-42	-40	-38	dB
Polar Pattern(0- 180°)		B&K,34 electret jig			-15	dB
Operating Voltage	∆S-Vs	Vs=1.5V to 1.0V			-3	dB
S/N Ratio	S/N	S :(f=1KHz ,S.P.L=1Pa) N:(A-Weighted curve)	68			dB
Max SPL		f=1KHz, THD≤3%	120			dB

3. AP Frequency Response Curve (Test Distance: 100cm, 34 Electret Jig)

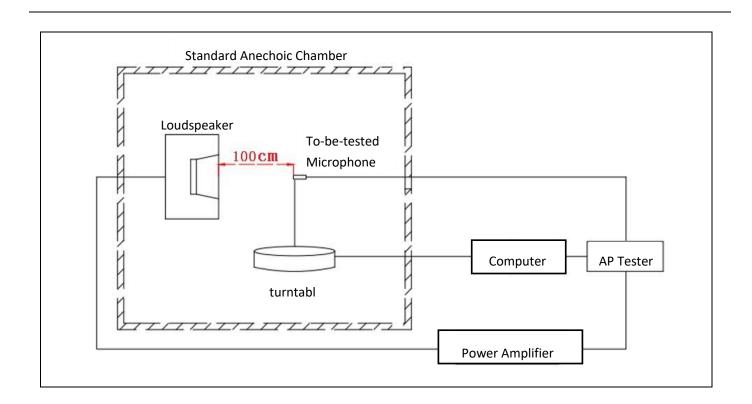


#### 3.1.1Frequency Response Curve

#### 3.1.2Polar Pattern



## 3.2Connection Diagram for AP Test



3.3Picture of Test Jig (34 Electret Jig)



3.4 Test Loop for Capsule

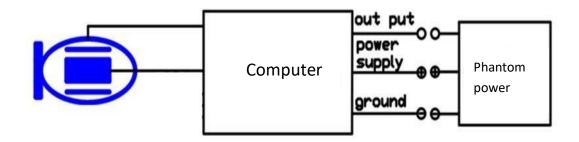
## 5. Requirements for Test Environment

#### 1. General Test Conditions

Temperature: 5 ~ +35°CRelative Humidity: 45 ~ 85% Atmospheric Pressure: 86 ~ 106Kpa

#### 2. Standard Test Conditions

Temperature: 20 +/- 2°C Relative Humidity: 60 ~ 70% Atmospheric Pressure: 86 ~ 106Kpa



#### 6. Requirements for Reliability Testing

Test Item	Test Condition	Acceptance Criteria
High Temperature Test	<ol> <li>Temperature: 60+/-3°C, 50+/-5% Relative humidity(IEC 68-2-2Bb)</li> <li>Duration time: 16h</li> </ol>	<ol> <li>After the test, the microphones must be placed at room temperature for 2 hours before they are inspected.</li> <li>The difference of sensitivity before and after the test should not exceed ± 3dB, and there</li> </ol>

·		
		are no abnormalities such as low sound and noise.
Low Temperature Test	1. Temperature: -40°C (IEC 68-2-1 Ab) 2. Duration time: 16h	<ol> <li>After the test, the microphones must be placed at room temperature for 2 hours before they are inspected.</li> <li>The difference of sensitivity before and after the test should not exceed ± 3dB, and there are no abnormalities such as low sound and noise.</li> </ol>
Cyclicdamp heat test	<ol> <li>Temperature: 55°C±2°C; Relative humidity: 93±3%; Duration time: 9h</li> <li>The temperature drops to 25 °C± 3 °C within 6h, and the humidity is greater than 95%. 24h is a cycle.</li> <li>Totally 2 cycles: 48h (total time)</li> </ol>	<ol> <li>After the test, the microphones must be placed at room temperature for 2 hours before they are inspected.</li> <li>The difference of sensitivity before and after the test should not exceed ± 3dB, and there are no abnormalities such as low sound and noise.</li> </ol>
Thermostatic heattest	<ol> <li>Temperature: 40+/-3°C(IEC 68-2-1 Ab) Relative humidity: 92%±3% (IEC 68-2-2Bb)</li> <li>Duration time: 96h</li> </ol>	<ol> <li>After the test, the microphones must be placed at room temperature for 2 hours before they are inspected.</li> <li>The difference of sensitivity before and after the test should not exceed ± 3dB, and there are no abnormalities such as low sound and noise.</li> </ol>
Temperature & humidity cyclic test	-10+/-3°C~55+/-3°C(IEC 68-2-14) Note: The microphones are neither packed nor powered on. Duration time: 5 cycles Time slot 1: 60 min Time slot 2: $\leq 60$ min Time slot 3: 60 min Time slot 4: $\leq 30$ min	<ol> <li>After the test, the microphones must be placed at room temperature for 2 hours before they are inspected.</li> <li>The difference of sensitivity before and after the test should not exceed ± 3dB, and there are no abnormalities such as low sound and noise.</li> </ol>

Water spray test	<ol> <li>Place the microphones at room temperature of 23°C +/- 5°Cand keep them dry.</li> <li>Place the microphones in a refrigerator with a temperature of 2°C - 8°C for 30 minutes.</li> <li>Then immediately put them into a constant temperature and humidity chamber (temperature: 25 °C, relative humidity: 95%) for 30 minutes.</li> <li>Take out themicrophones and</li> </ol>	<ol> <li>The difference of sensitivity before and after the test should not exceed ± 3dB, and there are no abnormalities such as low sound and noise.</li> </ol>
	30 minutes.	are no abnormalities such as low sound and
	immediately conduct a sound test on them for over 10 seconds.	<ul> <li>noise.</li> <li>2. The difference of sensitivity before and after the test should not exceed ± 3dB.</li> </ul>

# 7. Storage Environment

7.1The storage environment should be clean, ventilated and free of corrosive gases.

7.2The storage temperature should be controlled at -10°C to 55°C and the relative humidity at 20% to 70%.

# 8. Way of Packing

1. As shown in the following figure, put the capsule into the box (one for each box).

