



APPROVAL SHEET  
FOR  
MYLAR SPEAKER

常州富鸿达电子有限公司

CHANG ZHOU FHD ELECTRONICS CO., LTD.

CUSTOMER No.:

CLUE No.:

MODEL No.: FHDSP10A-001

OUR PART No.:

PART No.:

| CUSTOMER | APPROVED | CHECKED |
|----------|----------|---------|
|          |          |         |

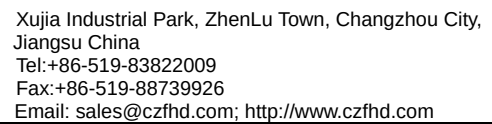
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|                                 |              |      |           |             |
|---------------------------------|--------------|------|-----------|-------------|
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|                                 |              |      | Des.      | Chk.        |
| Model No.:                      | FHDSP10A-001 | P/N: | Xu Fei    |             |
|                                 |              |      | 8/18/2021 | 8/18/2021   |

## 1. Document revision history

[illegible]

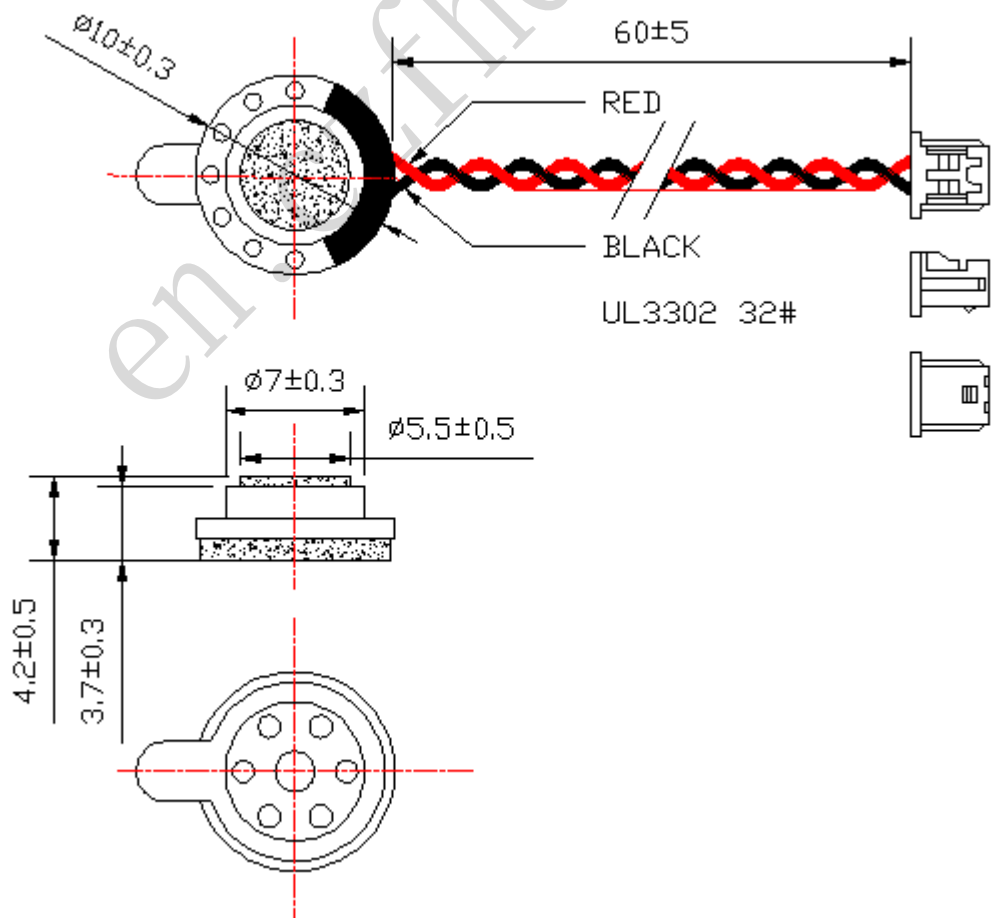
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## 2.SPECIFICATION

### Speaker

|    |                            |                                                                                                                                                                              |
|----|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Dimension                  | $\Phi 10 \times H4.2$                                                                                                                                                        |
| 2  | Impedance                  | 8Ohm $\pm 20\%$ at 1.0KHz                                                                                                                                                    |
| 3  | Rated Input Power          | 0.5W                                                                                                                                                                         |
| 4  | Max Input Power            | 1.0W                                                                                                                                                                         |
| 5  | Lowest Resonance Frequency | 1100 $\pm 20\%$ Hz                                                                                                                                                           |
| 6  | Audible Noise              | The input power shall be set at rated noise power(0.5W). Using an audio oscillator sweep from F0 to 10KHz in free air. There shall be no buzzes,rattles,nor spurious noises. |
| 7  | Sound Pressure Level       | 82 $\pm 3$ dB SPL(0.1m,0.5W) at 8.0,1.0,1.2,1.5KHz (0dB SPL=20 $\mu$ Pa)                                                                                                     |
| 8  | Distortion                 | Less exceed $\leq 10\%$ at 2.0KHz                                                                                                                                            |
| 9  | Operating Temperature      | -30 $^{\circ}$ C to + 70 $^{\circ}$ C                                                                                                                                        |
| 10 | Store Temperature          | -40 $^{\circ}$ C to + 80 $^{\circ}$ C                                                                                                                                        |

## 3. Dimensions



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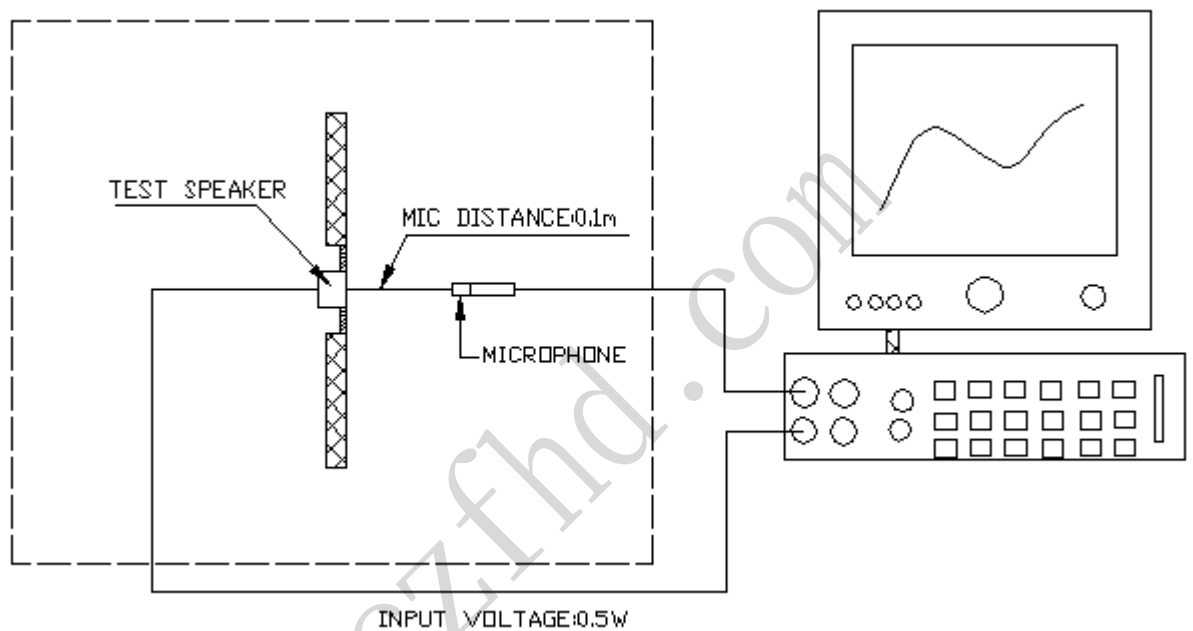
#### 4. Reliability Test 可靠性測試

|     |                            |                                                                                                                           |
|-----|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 4.1 | High Temperature Test      | High Temperature: +80°C±5°C<br>Duration : 96 hours                                                                        |
| 4.2 | Low Temperature Test       | Low Temperature: -40°C±5°C<br>Duration : 96 hours                                                                         |
| 4.3 | Humidity Test              | Temperature: +40°C±5°C<br>Relative humidity: 90%~95% RH<br>Duration : 96 hours                                            |
| 4.4 | Vibration Test             | Vibration: 10Hz~55Hz<br>Amplitude: 1.5mm or acceleration : 50m/s <sup>2</sup><br>Duration : 2h per axis=10cycles ; 3 axis |
| 4.5 | Temperature Cycle Test     | Temperature: -40°C ↔ +80°C<br>Duration : 2 hours 2 hours<br>Cycle: 5 Cycle                                                |
| 4.6 | Drop Test (under the unit) | Height: 1.0m<br>Cycle: 10 Cycles                                                                                          |
| 4.7 | Load Test                  | Noise: White noise<br>Power: 0.5W<br>Duration: 96 hours and satisfy the test listed on item 05,08,14.                     |

The test shall be carried out on the parts that passed 12hours in temperature 20°C.  
The sensitivity difference from the initial value shall be within ±3dB.

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## 5. Electrical And Acoustical Measuring Condition



## 6. Frequency Response

