

APPROVAL SHEET



FHD ELECTRONICS CORPORATION

CUSTOMER NAME : _____

COMMODITY : Piezo Transducer

FHD PART NO. : T46013-P3000E-P

CUSTOMER PART NO. : _____

Approved by	Y. J.	Prepared by	HY Shen
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Customer Approval			
Approved		Rejected	

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1. Technical Parameter

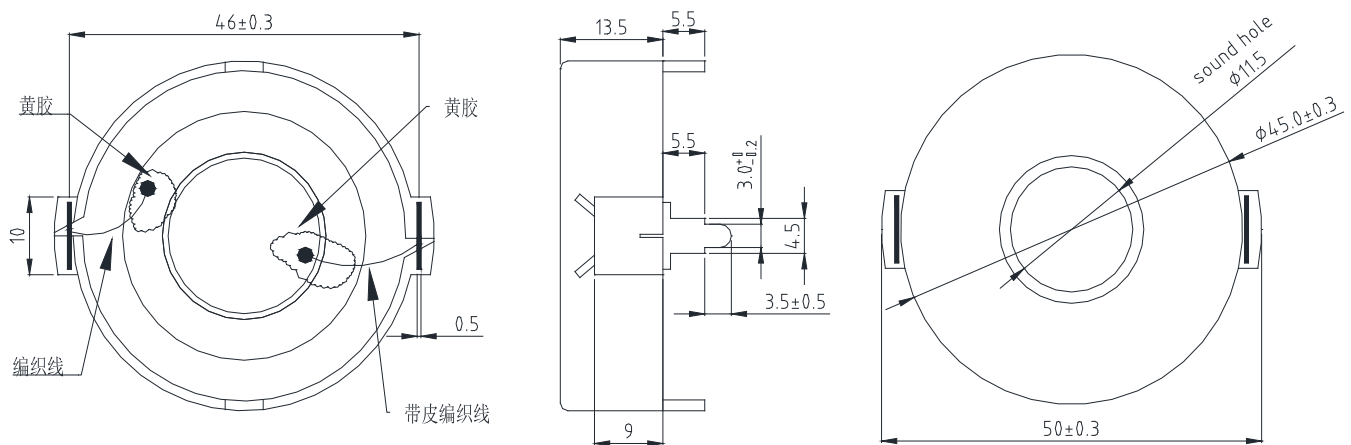


Measuring condition

Part shall be measured under a condition (Temperature: 5~35°C, Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~ 1060hPa) unless the standard condition (Temperature: 25±3°C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.

1	Resonant Frequency	3000Hz ± 500Hz
2	Operating Voltage	1~25Vp-p
3	Rated Current	Max.5mA ,at 3KHz 50% duty Square Wave 3Vp-p
4	Sound Output at 10cm	Min. 98dB,at 3KHz 50% duty Square Wave 3Vp-p
5	Capacitance	30 ± 30% nF at 1KHz
6	Operating Temperature	-20°C ~ +70°C
7	Store Temperature	-30°C ~ +80°C
8	Net Weight	Approx 14.6g
9	RoHS	Yes

2. Dimensions

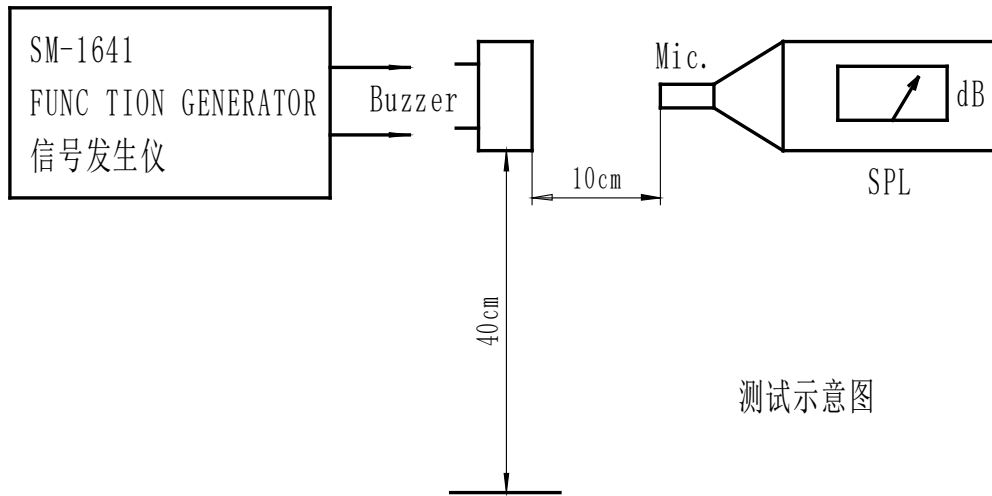


*Unit: mm; Tolerance: ± 0.5 mm Except Specified

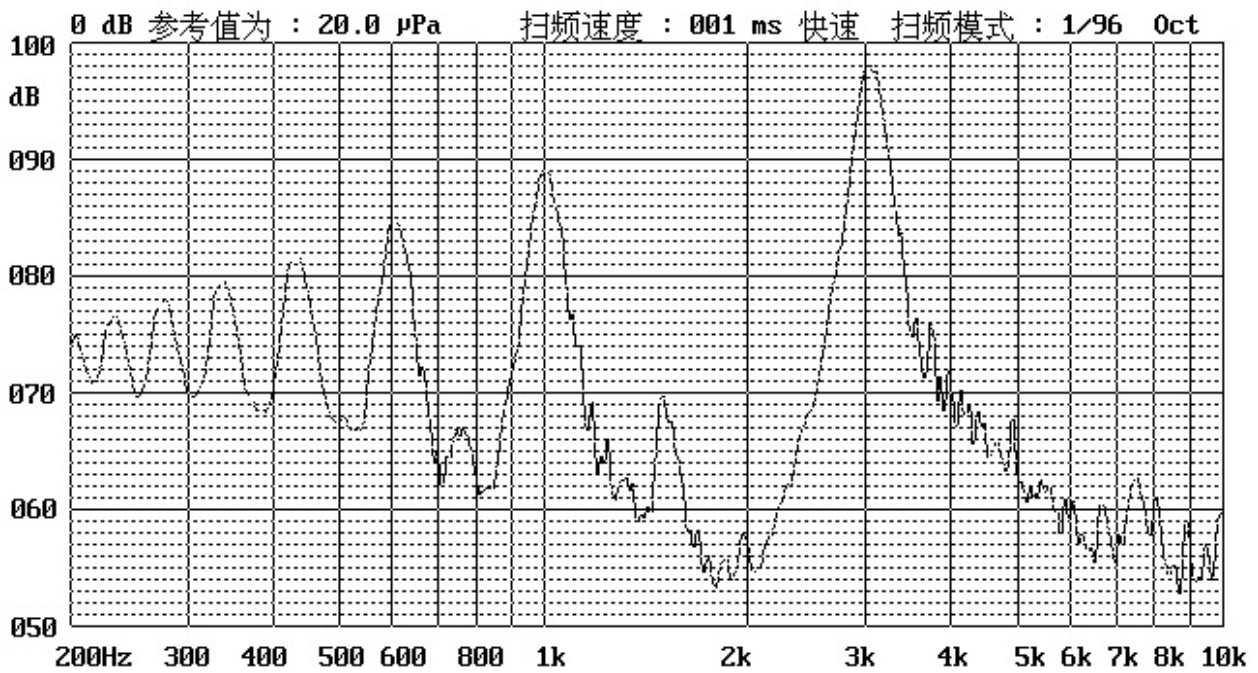
*Housing material: black PBT

3. Electrical And Acoustical Measuring Condition

Recommended Setting



4. Frequency Response



5. Reliability Test

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -5 dB from the initial value

5.1. Ordinary Temperature Life Test

The part shall be subjected to 96 hours at $25\pm 10^{\circ}\text{C}$. Input rated voltage, resonant frequency, 1/2 duty Square wave.

5.2. High Temperature Test

The part shall be capable of withstanding a storage temperature of $+70^{\circ}\text{C}$ for 96 hours.

5.3. Low Temperature Test

The part shall be capable of withstanding a storage temperature of -20°C for 96 hours.

5.4. Humidity Test

Temperature: $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Relative Humidity: 90% ~ 95% Duration: 48 hours and expose to room temperature for 6 hours

5.5. Temperature Shock Test

Temperature: $70^{\circ}\text{C} / 1\text{hour} \rightarrow 25^{\circ}\text{C} / 3\text{hours} \rightarrow -20^{\circ}\text{C} / 1\text{hour} \rightarrow 25^{\circ}\text{C} / 3\text{hours}$ (1 cycle)

Total cycle: 10 cycles

5.6. Drop Test

Standard Packaging From 75 cm (Drop on hard wood or board of 5cm thick, three sides, six plain.)

5.7. Vibration Test

Vibration: 1000 cycles / min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

Note:

As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign materials enter it.

6. PACKING INFORMATION

6.1 珍珠泡棉包装，16pcs/板，6板一盒，最上面加盖一张白纸板，96PCS/盒，按紧打上胶带



6.2 每箱放四盒 外箱尺寸：40*40.5*19.5 384PCS/箱 中间部分放一张黄垫板



6.3 打包，封“工”字形胶带，中间封三道，两头各封一道胶带 打“井”字形封箱带

