T440140-P1000A-L 2019/10/21

APPROVAL SHEET

FHD ELECTRONICS CORPORATION					
CUSTOME	R NAME	:			
COMMODITY		•	Piezo Transduc	cer	
FHD PART NO.		•	T440140-P100	0A-L	
CUSTOMER PART NO. :					
Approved by	Y. J.		Prepared by	HY Shen	
Customer Approval					

Approved	Rejected	

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FHD Electronics

T440140-P1000A-L 2019/10/21



			REVISIONS	
PRODUCT PART NO. : T440140-P1000A-L				
DATE	REVISER	REV.	DESCRIPTION	REMARK
2019/10/21	HY SHEN	1	Initial edition	
				FHD El

T440140-P1000A-L 2019/10/21

1. Technical Parameter

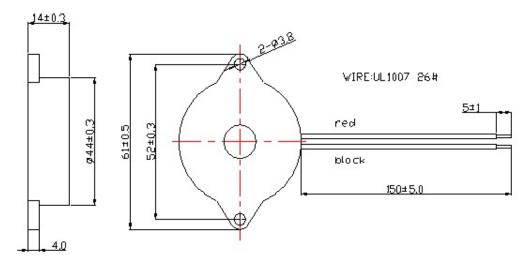


Measuring condition

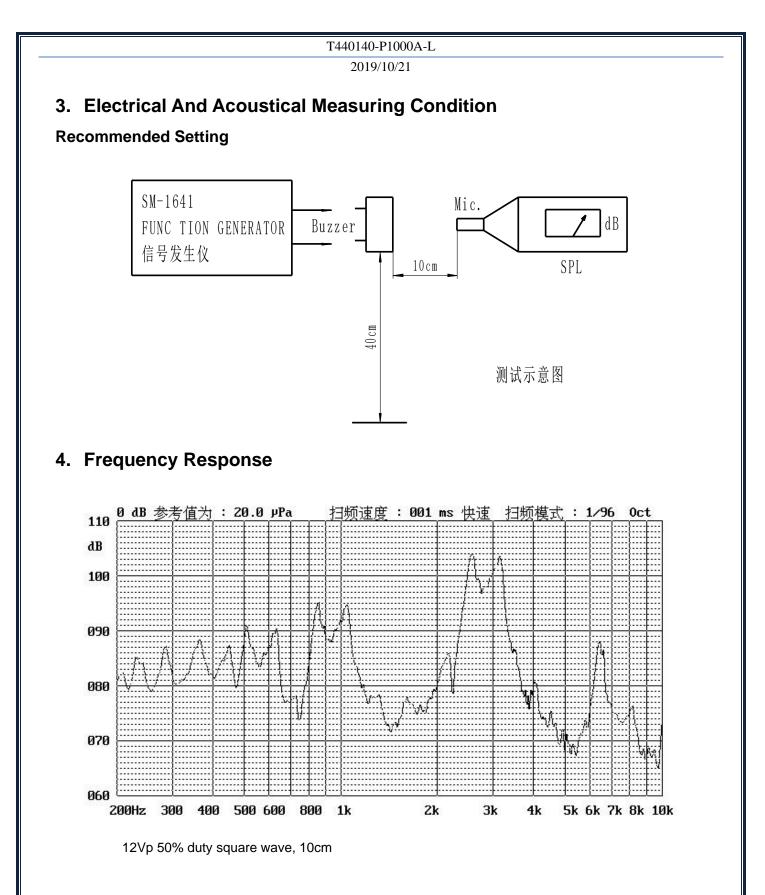
Part shall be measured under a condition (Temperature: $5\sim35^{\circ}$ C, Humidity: $45\%\sim85\%$ R.H., Atmospheric pressure: 860 ~1060hPa) unless the standard condition (Temperature: $25\pm3^{\circ}$ C, Humidity: $60\pm10\%$ R.H. Atmospheric pressure: 860 ~1060hPa) is regulated to measure.

1	Resonant Frequency	1000Hz ± 300Hz
2	Operating Voltage	1~25Vp-p
3	Rated Current	Max.5mA ,at 1000Hz 50% duty Square Wave 12Vp-p
4	Sound Output at 10cm	Min. 85dB,at 1000Hz 50% duty Square Wave 12Vp-p
5	Capacitance	55000 ± 30% pF at 1KHz
6	Operating Temperature	-20 °C∼ +60 °C
7	Store Temperature	-30°C∼+70°C
8	Net Weight	Approx 11g
9	RoHS	Yes

2. Dimensions



*Unit: mm; Tolerance: $\pm\,0.5\text{mm}$ Except Specified *Housing material: black ABS



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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±10°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°C for 96 hours.

5.3. Low Temperature Test

The part shall be capable of withstanding a storage temperature of -30°C for 96 hours.

5.4. Humidity Test

Temperature:+40°C±3°C Relative Humidity:90%~95% Duration: 48 hours and expose to room

temperature for 6 hours

5.5. Temperature Shock Test

Temperature:60°C /1hour \rightarrow 25°C/3hours \rightarrow -20°C/1hour \rightarrow 25°C/3hours (1cycle) 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:1000cycles /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.

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6 Packing Information	(TBA)