<b>APPROVAL SHEET</b>						
FHD ELECTRONICS CORPORATION						
CUSTOME	R NAME :					
COMMODITY :		PIEZO INDICAT	OR			
FHD PART NO.		I416160-PC300	0A-L			
CUSTOME	R PART NO. :					
Approved by	Y. J.	Prepared by	HY Shen			

Customer Approval				
Approved		Rejected		

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## FHD ELECTRONICS CORPORATION

### **REVISIONS**

# **PRODUCT PART NO. : I416160-PC3000A-L** DATE REVISER REV. DESCRIPTION REMARK 2019/6/24 HY SHEN 1 Initial edition

## A.PART NO.: I416160-PC3000A-L

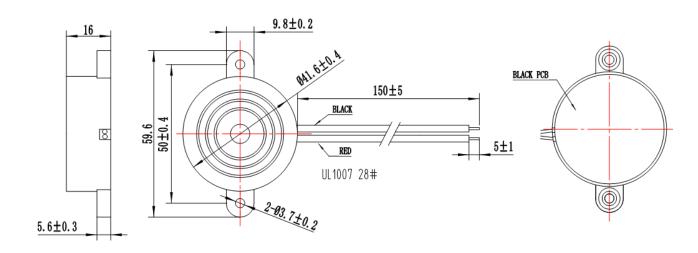
## **B. SPECIFICATION**

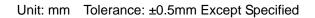
Part shall be measured under a condition (Temperature:  $5\sim35^\circ$ C, Humidity:  $45\%\sim$  85%R.H., Atmospheric pressure: 860 ~1060hPa) unless the standard condition

(Temperature:  $25\pm3$  °C, Humidity:  $60\pm10$ %R.H. Atmospheric pressure:  $860 \sim 1060$ hPa) is regulated to measure.

No.	ltem	Unit	Specification	Condition
1	Resonant Frequency	Hz	3000 ± 500	square wave
2	Rated Voltage	VDC	12	
3	Operating Voltage	VDC	3 ~ 24	
4	Current Consumption	mA	Max. 30	At 12VDC
5	Sound Output Level	dB	Min. 95	At 12VDC @10cm
6	Operating Temperature	°C	-20~ +70	
7	Storage Temperature	°C	-30 ~ +80	
8	Dimension	mm	Dia. 41.6 x 16.0	See appearance drawing
9	Weight (MAX)	gram		
10	Housing Material		PPO ( Black )	
11	Tone		Continuous	
12	Environmental Protection Regulation		RoHS	

## **B. APPEARANCE DRAWING**







## **D. 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 -5dB from the initial value

#### 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.

#### 2. High Temperature Test

The part shall be capable of withstanding a storage temperature of +80°C for 96 hours.

#### 3. Low Temperature Test

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

#### 4. Humidity Test

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

for 6 hours

#### 5. Temperature Shock Test

Temperature: 70°C /1hour $\rightarrow$  25°C/3hours $\rightarrow$ -30°C/1hour $\rightarrow$  25°C/3hours (1cycle)

Total cycle: 10 cycles

#### 6. Drop Test

Buzzer is packed in a standard Packaging and is dropped from height 75m on a 5cm thick hard wood or board,

#### three sides, six plain.

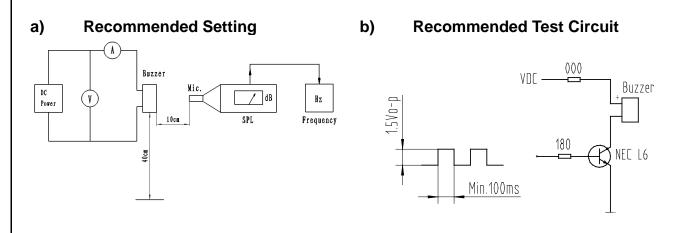
#### 7. Vibration Test

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

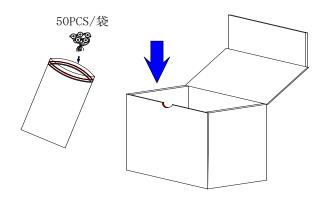
#### Note:

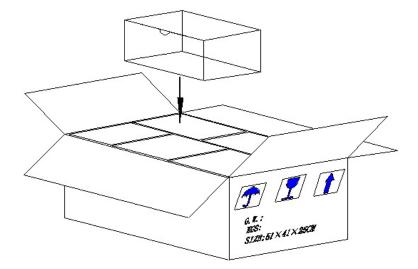
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter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

## E. ELECTRONICAL AND ACOUSTICAL MEASURING CONDITION



## F. PACKING INFORMATION





	包装名称	包装数量(pcs)	包装尺寸(mm)	图解
1	一密封袋	50	$300 \times 400$	Fig.1
2	一小盒	50	$635 \times 535$	Fig.1
3	箱子	500	$500 \times 410 \times 250$	Fig.2