# APPROVAL SHEET



CUSTOME	R NAME :		
COMMODITY		PIEZO INDICAT	OR
FHD PART	NO. :	I417180-PCSA-L	
CUSTOME	R PART NO.:		
Approved by	Y. J.	Prepared by	HY Shen

Customer Approval				
Approved	Rejected			

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# **REVISIONS**

<b>PRODUCT</b>	PART NO.	· 1417180	-PCSA-I

		PKO	DUCT PART NO. : 1417180-PCS	<b>A-L</b>
DATE	REVISER	REV.	DESCRIPTION	REMARK
2019/6/24	HY SHEN	1	Initial edition	

# **A. PART NO.: I417180-PCSA-L**

# **B. SPECIFICATION**

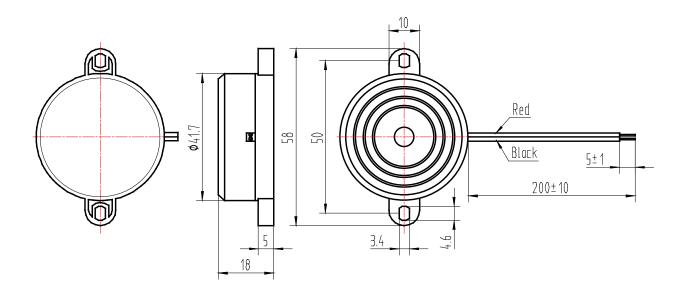
Part shall be measured under a condition (Temperature:  $5\sim35^{\circ}$ C, Humidity:  $45\%\sim85\%$ R.H., Atmospheric pressure:  $860\sim1060$ hPa) unless the standard condition



(Temperature: 25±3℃, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~1060hPa) is regulated to measure.

No.	Item	Unit	Specification	Condition
1	Resonant Frequency	Hz		square wave
2	Rated Voltage	VDC	12	
3	Operating Voltage	VDC	5 ~ 18	
4	Current Consumption	mA	Max. 25	At 12VDC
5	Sound Output Level	dB	Min. 95	At 12VDC @30cm
6	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20~ +60	
7	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +70	
8	Dimension	mm	Dia. 41.7 x 18.0	See appearance drawing
9	Weight (MAX)	gram	15	
10	Housing Material		ABS ( Black )	
11	Tone		Siren	
12	Environmental Protection Regulation		RoHS	

# **B. APPEARANCE DRAWING**



Unit: mm Tolerance: ±0.5mm Except Specified

### 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 +70°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:  $70^{\circ}$ 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

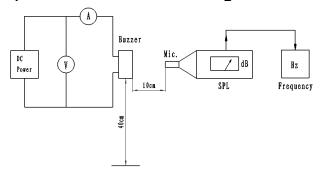
Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

#### Note:

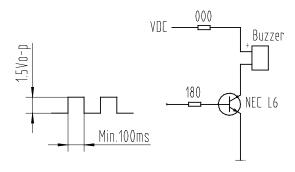
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter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

## E. ELECTRONICAL AND ACOUSTICAL MEASURING CONDITION

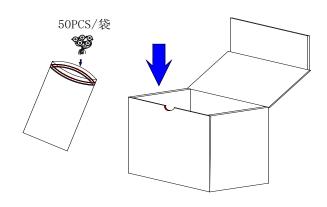
### a) Recommended Setting

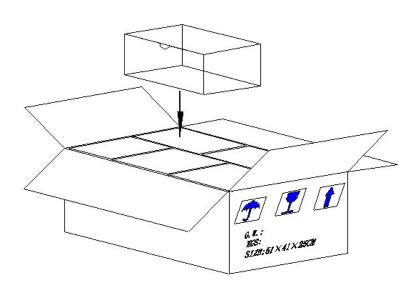


### b) Recommended Test Circuit



# 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	$500\times410\times250$	Fig. 2