



# SPECIFICATION FOR APPROVAL

<b>DESCRIPTION</b>	<b>PIEZO TRANSDUCER</b>
<b>PART NUMBER</b>	<b>BPI-23CP</b>
<b>CUSTOMER</b>	
<b>DATE</b>	

Originated by	Checked by	Approved by

EL3 Inc.

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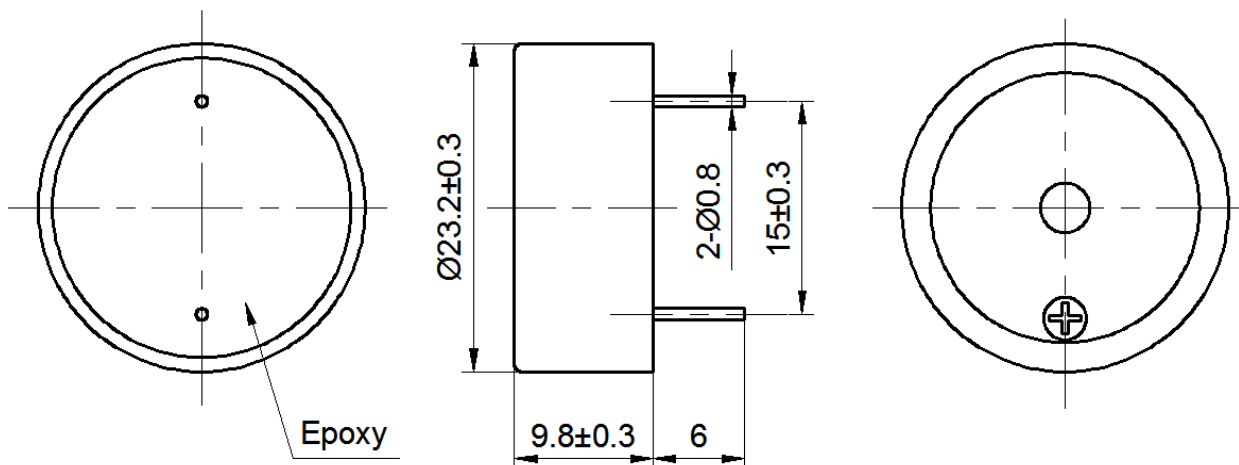
## BPI-23CP PIEZO TRANSDUCER

No.	Technical terms	Value
1	Rated Voltage (VDC)	24
2	Operating Voltage(VDC)	5 ~ 25
3	*Rated Current(mA)	≤25
4	*Sound Output at 10 cm(dB)	≥90
5	*Resonance Frequency (Hz)	3,400~3,900
6	Tone	Continuous
7	Operating Temperature(℃)	-40 ~ +85
8	Storage Temperature(℃)	-40 ~ +90
9	Weight (g)	3.3
10	Housing Material	PBT
11	RoHS	Yes

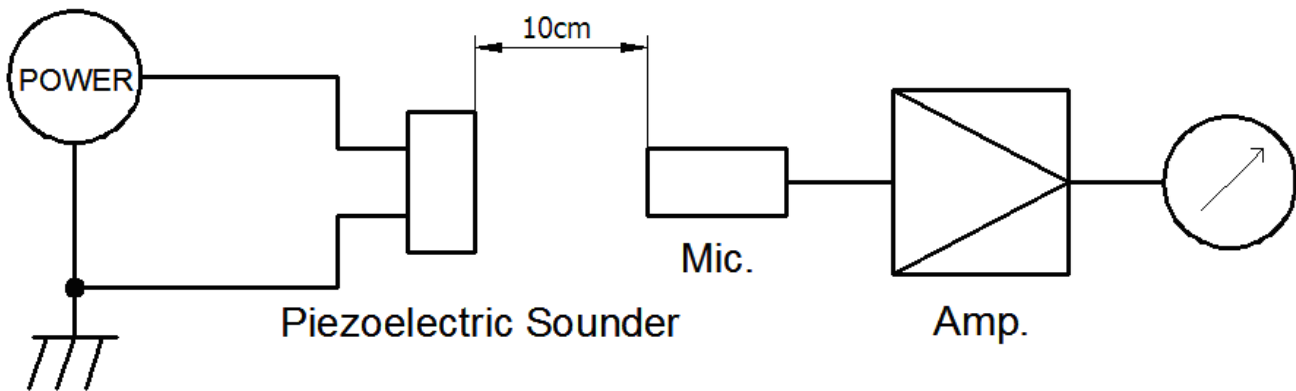
\*Value applying rated voltage (DC)

\*Test Basic State: Temp(20±2℃), Humidity(40~70%RH), Air pressure(860~1060hPa).

### DIMENSION (UNIT: mm) Tolerance: ±0.5mm Except Specified



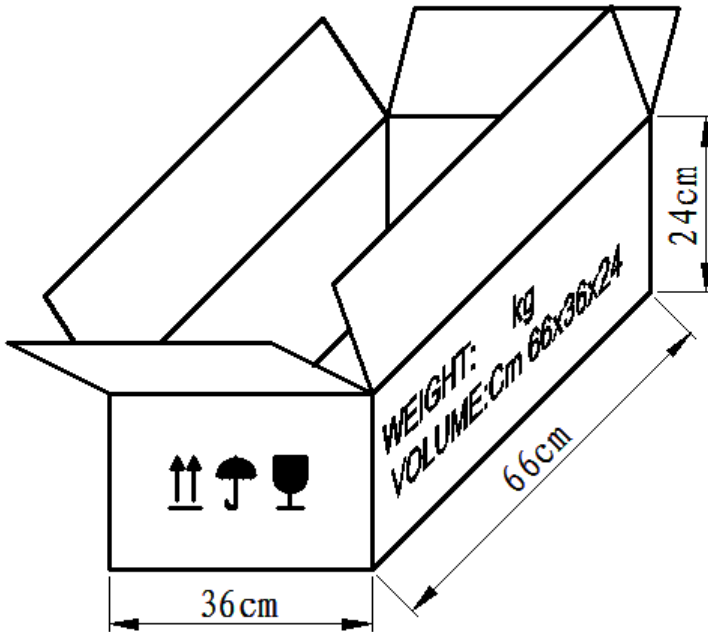
## TEST METHOD:



MIC: ND10 Sound Meter or equivalent  
 DC Power Supply: QJ6003S or equivalent

## RELIABILITY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	Humidity	40±5℃, 93(+2/-3)%RH, 96HRS	After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value±10dB.(pls do the test after 2 hours when you finish the experiment)
2	High temp.	+90±2℃, 96HRS	
3	Low temp.	-40±2℃, 96HRS	
4	Temperature cycling	-40±2℃, 30minutes room temp. 15 minutes +90±2℃, 30 minutes room temp. 15minutes 5 cycles	
5	Drop test	3 times from height of 70cm onto the surface of 10mm thick wooden board.	
6	Vibration test	Make the test for the directions of X Y and Z (total 0.5 hours). To-and-fro. sweep time (from 10 to 55 Hz and then 55 to 10 ) under single amplitude of 1.0mm is 1 minute.	
7	Solder heat resistance	The part leads (pins) shall be immersed in molten solder maintained at 260±5℃ for a period of 10 seconds. Refer to GB2423.28.	After the test part shall meet specifications without any degradation in appearance and performance.

**PACKING:****NOTES:**

1. 50 PCS per box
2. Total 50 boxes per carton
- 3 .Total 2,000 PCS carton