

BP1 1412PWL A

PIEZO BUZZER

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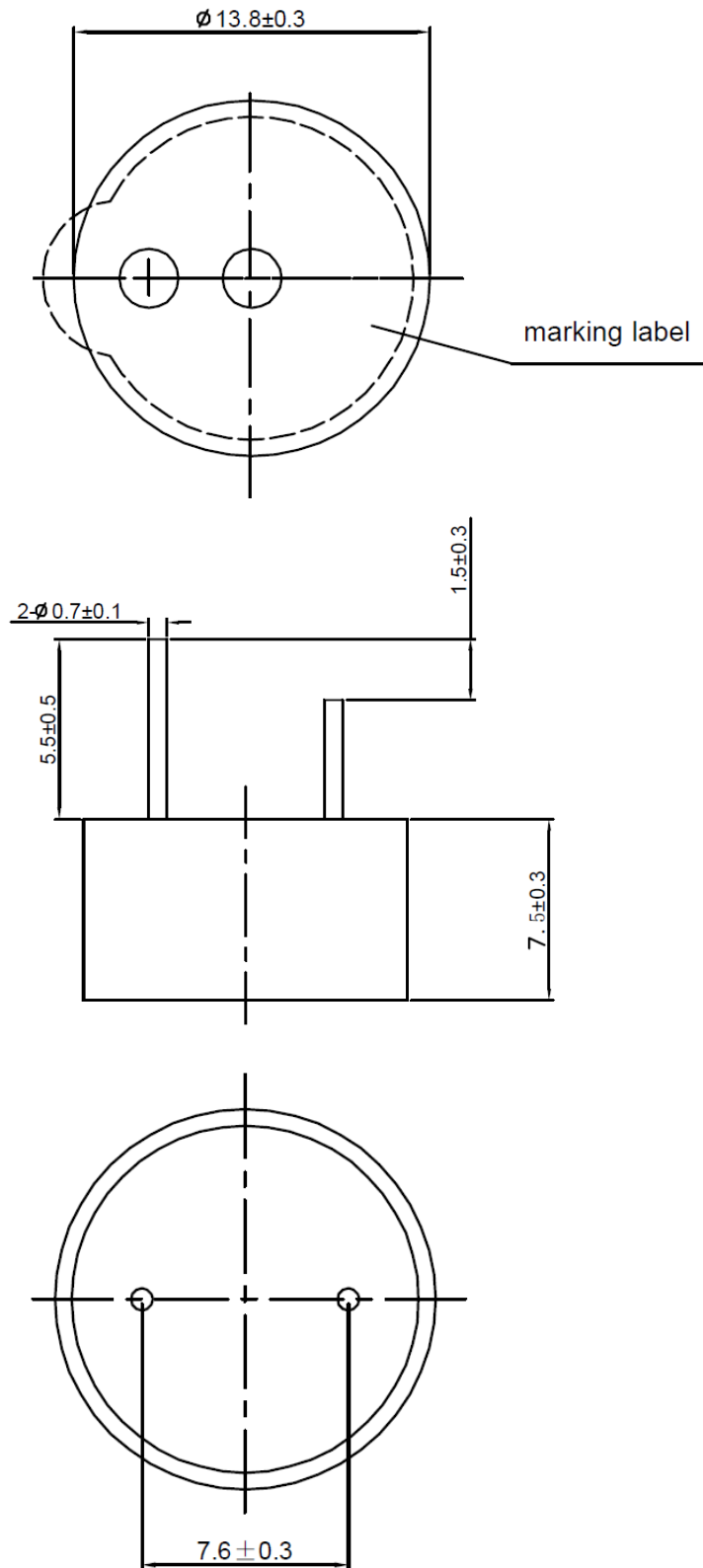


1. SPECIFICATIONS

Parameter	Unit	Conditions / Description	MIN	TYP	MAX
Rated Voltage	VDC			12	
Operating Voltage	VDC		3		16
Rated Current	mA	Value applying at rated voltage			10
SPL	dB	Value applying at rated voltage In 10cm distance	85		
Resonance Frequency	Hz		3.500	4.000	4.500
Housing Colour				BLACK	
Contact				PIN	
Packaging				TRAY	
Operating Temperature	°C		-20		+70
Storage Temperature	°C		-30		+80
Weight	g		0.75	1	1.25

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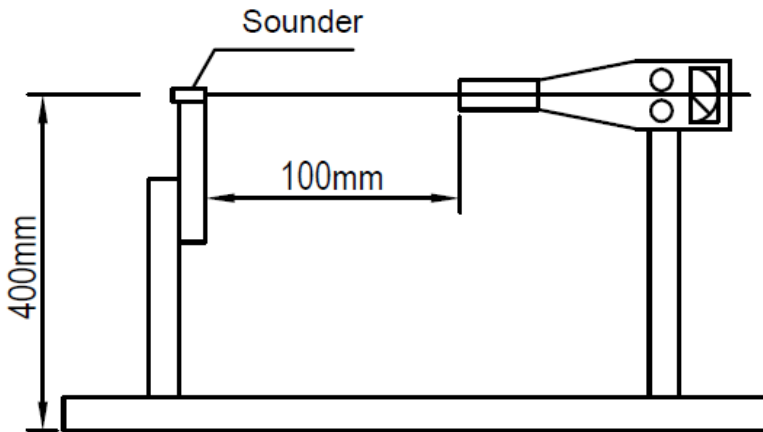
2. DRAWING



Tolerance: ± 0.2 Unit: mm

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3. TEST METHOD



4. RELIABILITY TEST

4.1 High Temperature Test

Temperature +80°C
Duration 96 hours

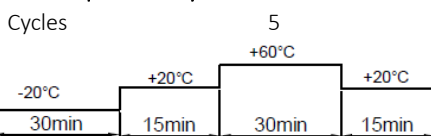
4.2 Low Temperature Test

Temperature -30°C
Duration 96 hours

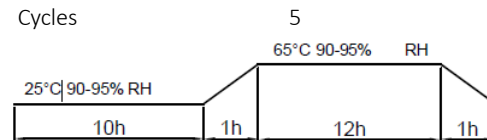
4.3 Life Test in normal temperature

Power Supply Rated Voltage
Duration 1000 hours

4.4 Temperature Cycle Test



4.5 Humidity Cycle Test



All these tests above should be measured after leaving normal temperature for 2 hours.

4.6 Drop Test

Height 70 cm (to 10mm thick wooden board)
Direction 3

4.7 Solderability

Temperature 255 ± 5°C
Duration 3 ± 0.5 seconds

4.8 Solder Heat Resistance

Temperature 255 ± 10°C
Duration 30 seconds

Notice:

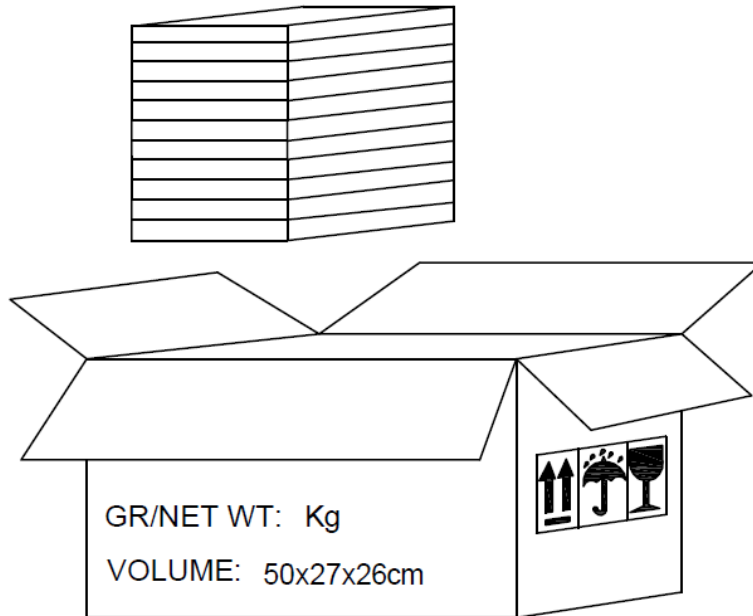
All specification must be satisfied in this condition.

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5. PACKING



5.1 PACKING QUANTITY

100pcs per tray
 30 trays per carton
 3000pcs per carton in total
 Carton size: 50x27x26cm

6. NOTICE

6.1 The products mustn't be washed

6.2 Storage Condition

The products should be stored in a room, where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:
 Temperature: -10 to + 40°C Humidity: 15 to 85% R.H.

6.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivery under the conditions of a sealed and an unopened package. Please use the products within six months after delivery. If you store the products for a long time (more than six months), Use them carefully, because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

6.4 Notice on Product Storage

- (1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced in quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.
- (2) Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solderability due to storage under the poor condition.
- (3) Please do not drop the products to avoid cracking of ceramic element.

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7. HISTORY CHANGE RECORD

REV	CHANGE ITEMS		DATE
	BEFORE CHANGE	AFTER CHANGE	
1	Housing Colour: Grey	Housing Colour: Black	2007.10.24
2	Old Layout	New Layout	2019.09.16

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