

PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-4333N



Release | Revision: B/2018

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Specifications					
Item	Unit	Specification	Condition		
Rated Voltage	VDC	12.0			
Operating Volt	VDC	6.0 ~ 28.0			
Mean Current	mA	20 Max.	At 12.0 VDC		
Sound Output	dBA	80	At 30cm/12.0VDC		
Resonant Frequency	Hz	2900 ±500			
Operating Temp	°C	-20 ~ +60			
Storage Temp	°C	-20 ~ +70			
Dimension	mm	43.0 × 33.0			
Housing Material	gram	40			
Material		ABS (black)			
Terminal		Pins	See Dimensions		
Environmental Protection Regulation		RoHS			

Test condition:

Temperature: +25±2 °C **Related humidity:** 65±5%

Mechanical Characteristics					
Item	Test condition	Evaluation standard			
Lead Wire Pull Strength	The pull force will be applied to double lead wire: Horizontal: 3.0N(0.306kg) for 30 seconds. Vertical: 2.0N(0.204kg) for 30 seconds.	No damage and cutting off			
Vibration	Buzzer will be measured after being applied vibration of amplitude of 1.5mm with 10Hz to 55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours.	The value of oscillation frequency/current consumption would be in ±10% compared with initial ones.			
Drop test	The part only will be dropped from a height of 70cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z). A total of 9 times.	The SPL would be in ±10dB compared with initial one.			



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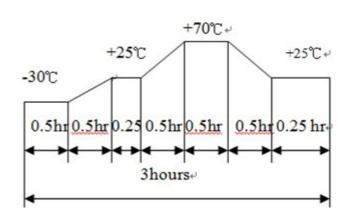
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Environment Test					
Test condition	Evaluation standard				
After being placed in a chamber at +70°C for 96 hours	Being placed for 4 hours at +25°C, buzzer will be measured. The value of oscillation, frequency / current consumption would be in ±10% compared with initial ones. The SPL would be in ±10dB compared with initial one.				
After being placed in a chamber at -30°C for 96 hours					
After being placed in a chamber at +70°C and 90±5% relative humidity for 96 hours					
	Test condition After being placed in a chamber at +70°C for 96 hours After being placed in a chamber at -30°C for 96 hours After being placed in a chamber at +70°C and 90±5%				

The part will be subjected to 5 cycles. Temp cycle test

One cycle shall consist of:



Reliability Test					
Item	Test condition	Evaluation standard			
Operating life test	perating life test 1. Continuous life test 48 hours continuous operation at +55°C with maximum rated voltage applied 2. Intermittent life test A duty cycle of 1 minute on, 1 minutes off, a minimum of 1000 times at +25±2°C and maximum rated voltage				
	applied	The SPL would be in±10dBA compared with initial one.			

Standard test condition:

a) Temperature: +5~+35°C

b) Humidity: 45~85%

c) Pressure: 860~1060mbar



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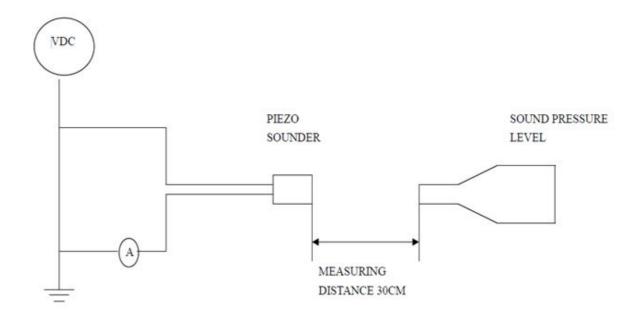
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Measuring Method

S.P.L Measuring Circuit

Input Signal: 12.0 VDC



MIC: RION S.P.L meter UC30 or equivalent



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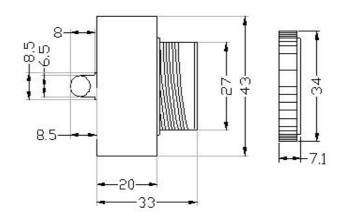
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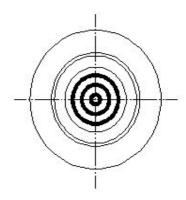
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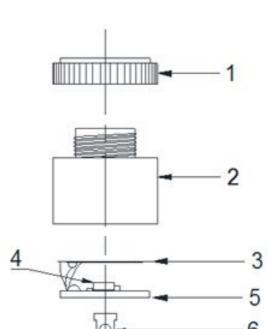
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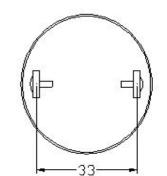
Dimensions

Tolerance: ±0.5 (unit: mm)









No.	Part Name	Material	Quantity
1	Case	ABS	1
2	Case	ABS	1
3	Piezo	Brass + ceramics	1
4	Transistor	Epoxy + copper	
5	Cover/PCB	Ероху	1
6	PIN	Fe	2





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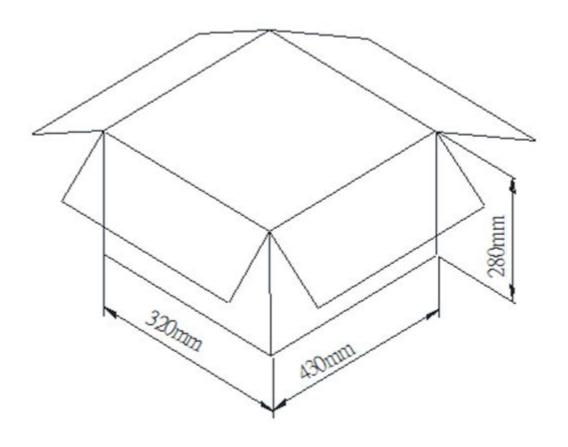
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Details

Size (mm) Quantity (pcs)

430 x 320 x 280 500

Carton