

PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-2418-2



Release | Revision: C/2018

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Specifications					
Item	Unit	Specification	Condition		
Rated Voltage	VDC	12.0	1		
Operating Voltage	VDC	3.0 ~ 20.0	OV VDC		
Mean Current	mA	15 Max.	At rated voltage		
Sound Output	dB	95	At 10cm at rated voltage.		
Rated Frequency	Hz	3300±500			
Operating Temp	°C	-20 ~ +85			
Storage Temp	°C	-30 ~ +85			
Dimension	mm	Ø24.0xH17.5	See attached drawing.		
Weight	gram	5.4			
Material		PBT(Black)			
Terminal		Pin type (Plating Sn)	See attached drawing.		
Environmental Protection Regulation		RoHS			

Test condition:

Temperature: +25±2°C **Related Humidity:** 65±5% **Air Pressure:** 86-106KPa

	Mechanical Characteristics		
Item	Test Condition	Evaluation Standard	
Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in the solder bath at +250±5°C for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)	
Soldering Heat Resistance	Lead terminals are immersed in the soldering bath at +250±5°C for 3±1 seconds. The force of 9.8N(1.0Kg) is applied to the part for 10 seconds.	No interference in operation.	
Terminal Mechanical Strength	The force of 9.8N is applied to each terminal in axial direction for 10 seconds.	No damage and cutting off.	
Vibration	The buzzer shall be measured after a vibration of amplitude of 1.5mm with 10Hz to 55Hz band of vibration frequency is applied to each of 3 perpendicular directions for 2 hours	After the test, the part shall meet specifications without any damage in appearance and performance except	
Drop Test	The part is dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X,Y,Z). A total of 9 times.	Jr L.	



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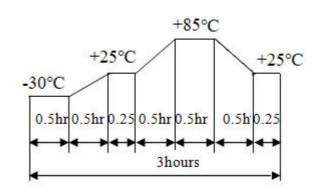
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Environment Test					
Item	Test Condition	Evaluation Standard			
High Temp. Test	The part is placed in a chamber at +85°C for 96 hours.	After the test, the part shall meet specifications without any degradation in appearance and			
Low Temp. Test	The part is placed in a chamber at -30°C for 96 hours.				
Humidity Test	The part is placed in a chamber at +40°C, and 90±5% relative humidity for 96 hours.	performance except SPL. After 4 hours at +25°C ±2°C, the SPL should be in ±10dBA compared with initial one.			
Temp/Humidity Cycle	The part shall be subjected to 5 co	ycles,			



Reliability Test					
Item	Test Condition	Evaluation Standard			
Operating Life Test	 Continuous Life Test 48 hours of continuous operation at +55°C with the maximum rated voltage applied Intermittent Life Test A duty cycle of 1 minute on, 1 minute off, a minimum of 1000 times at +25±2°C and the maximum rated voltage applied 	After the test, the part shall meet specifications without any degradation in appearance and performance except SPL. After 4 hours at +25°C ±2°C, the SPL should be in ±10dBA compared with initial one.			

Standard Test Condition:

a) Temperature: +5~+35°C

b) Humidity: 45~85%

c) Pressure: 86~106KPa



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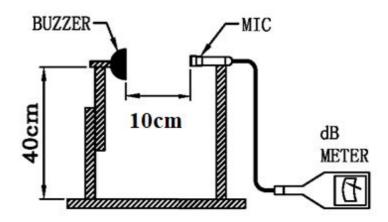
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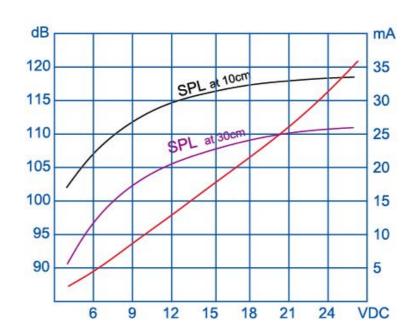
Inspection Fixture

S.P.L Measuring Circuit

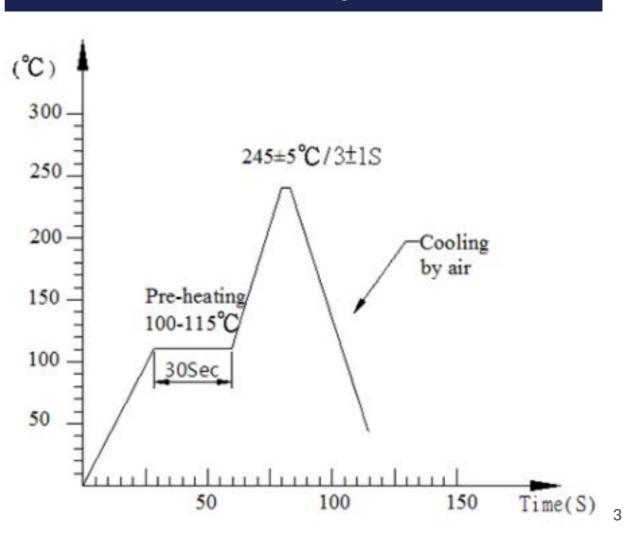
Input Signal: 12 VDC **MIC:** S.P.L meter TES1351B or equivalent



Frequency Response



Recommended Wave Soldering Temperature Curve





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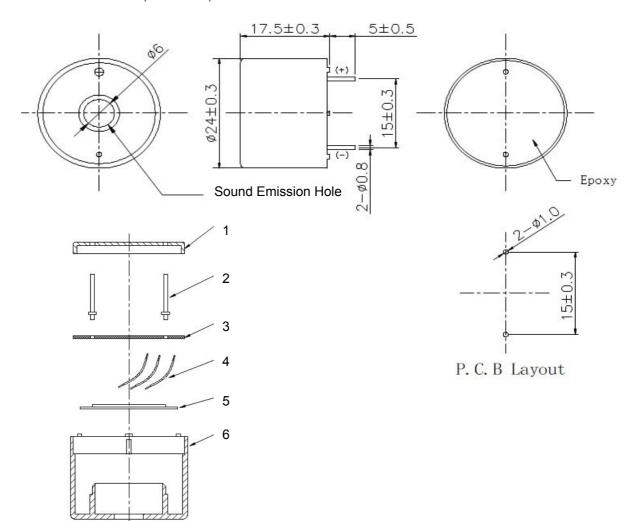
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Tolerance: ±0.5 (unit: mm)



No.	Part Name	Material	Quantity
1	Case	PBT	1
2	PIN	Copper	2
3	PCB	Ероху	1
4	Wire	Copper Wire	3
5	Piezo	Brass + Ceramic	1
6	Case	PBT	1





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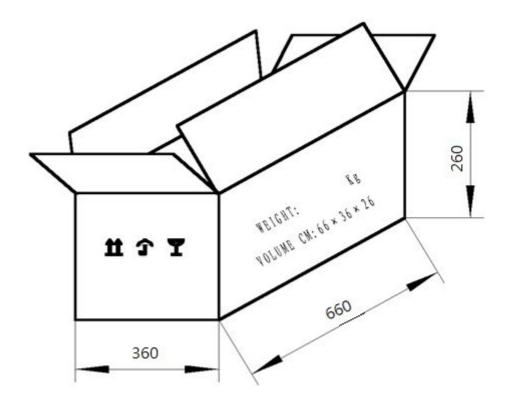
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Details

Per Bag: 50 pcs Per Carton: 40 bags Per Carton: 2,000pcs

Volume: 660 x 360 x 260mm