

PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-2410-2



Release | Revision: C/2018

CONTENTS

This document contains the technical specifications for the Piezo Audio Buzzer.

Page 1

Specifications

Mechanical Characteristics

Page 2

Environment Test

Reliability Test

Page 3

Inspection Fixture

Frequency Response

Recommended Wave Soldering Temperature Curve

Page 4

Dimensions

Page 5

Packing

Specifications				
Item	Unit	Specification	Condition	
Rated Voltage	VDC	12.0	<u> </u>	
Operating Voltage	VDC	6.0 ~ 15.0	0V	
Mean Current	mA	30 Max.	At rated voltage	
Sound Output	dB	95	At 10cm at rated voltage.	
Rated Frequency	Hz	3500±500		
Operating Temp	°C	-20 ~ +70		
Storage Temp	°C	-30 ~ +80		
Dimension	mm	Ø23.3xH9.5	See attached drawing.	
Weight	gram	3.0		
Material		PPO(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	oscillation frequency current consumption should be in±10% compared with initial ones. The SPL should be in±10dB compared with initial one.	
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.		



PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-2410-2



Release | Revision: C/2018

CONTENTS

This document contains the technical specifications for the Piezo Audio Buzzer.

Page 1

Specifications

Mechanical Characteristics

Page 2

Environment Test

Reliability Test

Page 3

Inspection Fixture

Frequency Response

Recommended Wave Soldering Temperature Curve

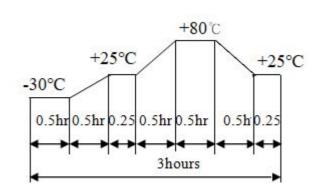
Page 4

Dimensions

Page 5

Packing

Environment Test			
Item	Test Condition	Evaluation Standard	
High Temp. Test	The part is placed in a chamber at +80°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 +80°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



PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-2410-2



Release | Revision: C/2018

CONTENTS

This document contains the technical specifications for the Piezo Audio Buzzer.

Page 1

Specifications

Mechanical Characteristics

Page 2

Environment Test

Reliability Test

Page 3

Inspection Fixture

Frequency Response

Recommended Wave Soldering Temperature Curve

Page 4

Dimensions

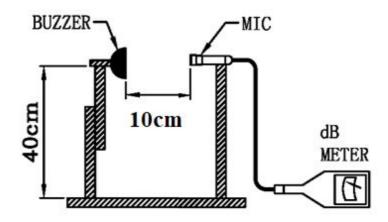
Page 5

Packing

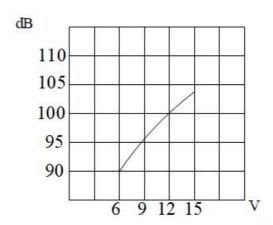
Inspection Fixture

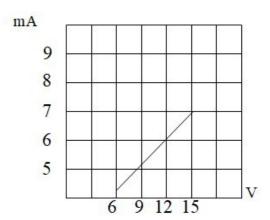
S.P.L Measuring Circuit

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

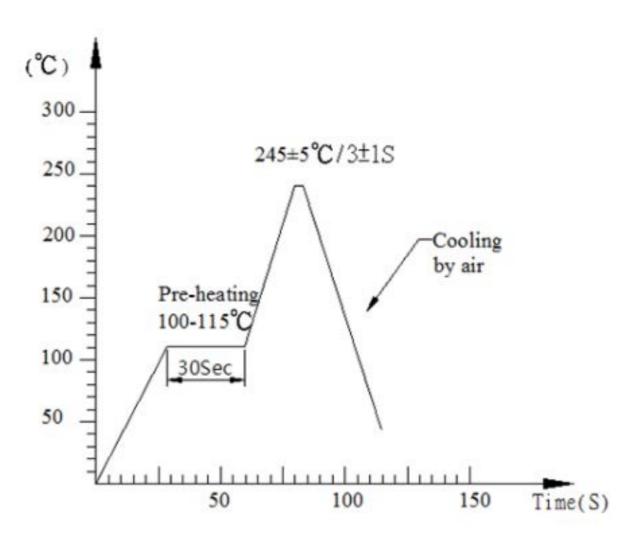


Frequency Response





Recommended Wave Soldering Temperature Curve



3



PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-2410-2



Release | Revision: C/2018

CONTENTS

This document contains the technical specifications for the Piezo Audio Buzzer.

Page 1

Specifications

Mechanical Characteristics

Page 2

Environment Test

Reliability Test

Page 3

Inspection Fixture

Frequency Response

Recommended Wave Soldering Temperature Curve

Page 4

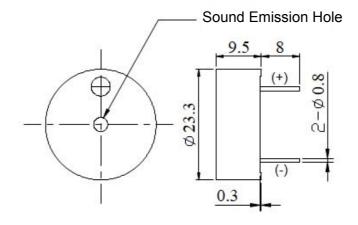
Dimensions

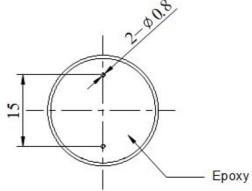
Page 5

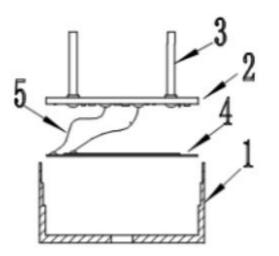
Packing

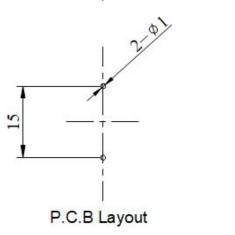
Dimensions

Tolerance: ±0.5 (unit: mm)









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



PB PIEZO AUDIO BUZZER

Acoustic Product Specification

Product Number: PB-2410-2



Release | Revision: C/2018

CONTENTS

This document contains the technical specifications for the Piezo Audio Buzzer.

Page 1

Specifications

Mechanical Characteristics

Page 2

Environment Test

Reliability Test

Page 3

Inspection Fixture

Frequency Response

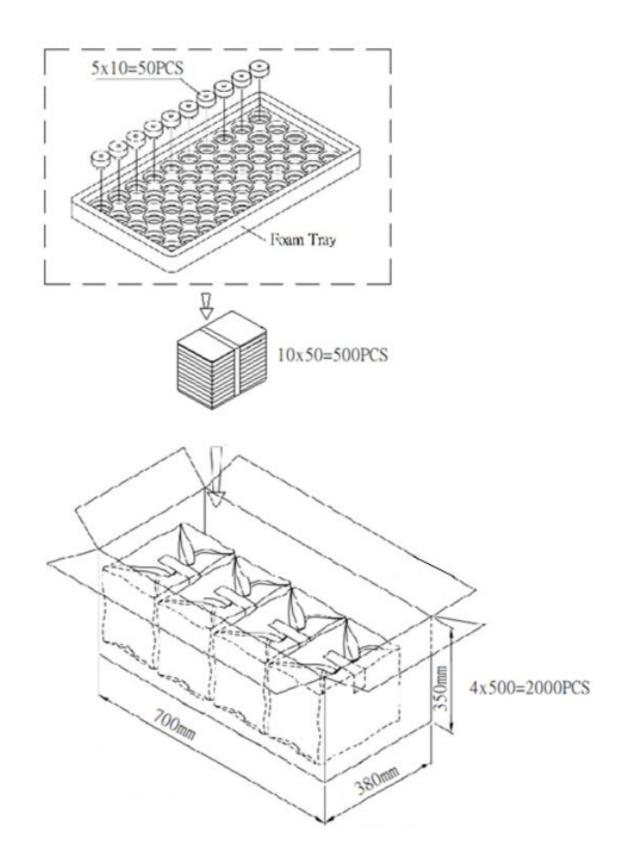
Recommended Wave Soldering Temperature Curve

Page 4

Dimensions

Page 5

Packing



Details			
Foam Tray	320 x 170 x 25mm	1 x 50pcs = 50pcs	
Carton Box	700 x 380 x 350mm	4 x 500pcs = 2,000pcs	