Image: solution inc.ELECTRO

MAGNETIC BUZZER

Acoustic Product Specification

Product Number: WST-05T



Release | Revision: A / 2022

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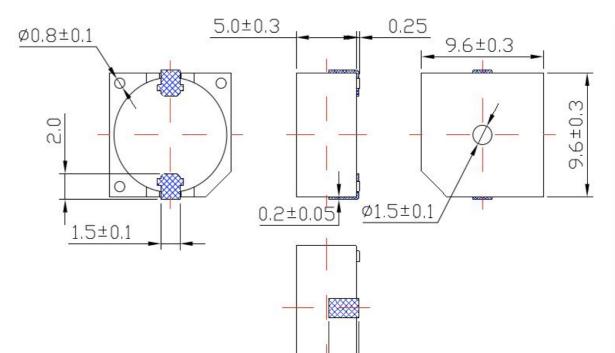
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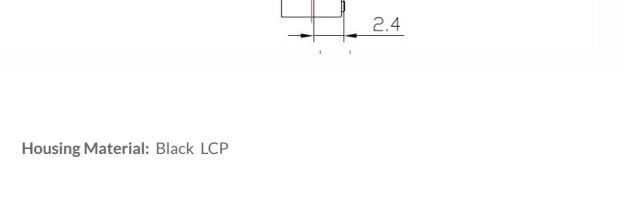
Specifications			
Item	Unit	Specifications	
Rated Voltage	VDC	5	
Operating Voltage	VDC	3~8	
Rated Current	mA	Max. 30 at 5 VDC	
Sound Output	dB	Min. 85 at 5 VDC, 10cm	
Tone		Continuous	
Resonant Frequency	Hz	2700±300	
Operating Temperature	°C	-20 ~ +70	
Storage Temperature	°C	-30 ~ +85	
Dimensions	mm	9.6 × 9.6 × H5.0	
Housing Material		Black LCP	
Terminal		SMD	
Net Weight	gram	Approx. 1.5	
Environmental Protection Regulation		RoHS 2.0	

Dimensions

Unit: mm

Tolerance: ±0.5mm, except where specified





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Reliability Test

After any of the following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall meet the specifications and shall not deviate more than -10dB from the initial value.

Standard Temperature Life Test

The part shall be subjected to 96 hours at 25±10°C.

Input rated voltage: 5 VDC

Resonant frequency: 2700Hz, 50% duty cycle, square wave.

High Temperature Test

The part shall be capable of withstanding a storage temperature of +85°C for 96 hours.

Low Temperature Test

The part shall be capable of withstanding a storage temperature of -30 $^{\circ}\mathrm{C}$ for 96 hours.

Humidity Test

Temperature +40°C±3°C

Relative Humidity 90% ~ 95%

Duration 48 hours and exposure to room temperature for 6 hours

Temperature Shock Test

Per cycle 70°C/1 hour \rightarrow 25°C/3 hours \rightarrow -30°C/1 hour \rightarrow 25°C/3 hours

Total cycle 10 cycles

Drop Test

Standard Packaging from 1.2m

Drop on hardwood or board of 5cm thick, three sides, six plain

Vibration Test

Vibration 1000 cycles/min.

Amplitude 1.5mm

Duration 1 hour in each 3 axes

Note

Please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. Contamination may result in a loss of some or all audio output.

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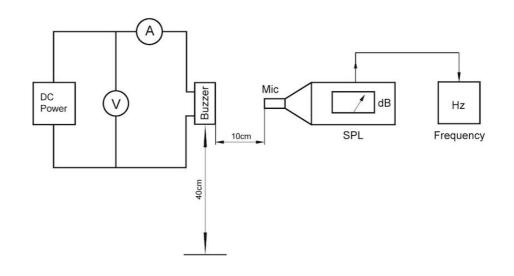
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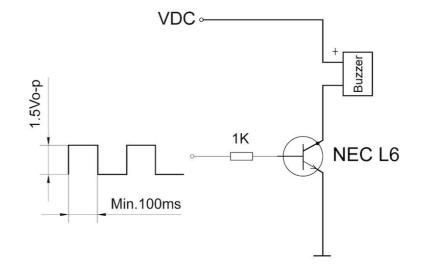
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Electrical And Acoustical Measuring Condition

Recommended Setting

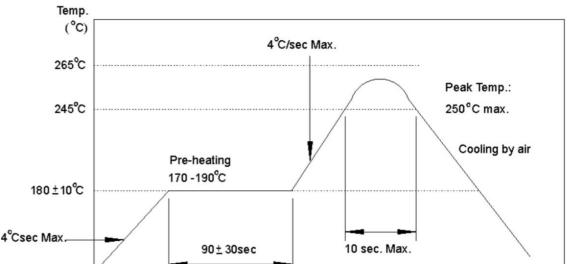


Recommended Test Circuit



Reflow Soldering

Recommended reflow soldering condition is as follows:



Time(Sec)

Note

- 1. In automated mounting of the SMD sound transducers on PCB, any bending, expanding and pulling forces or shocks against the SMD sound transducers shall be kept minimum to prevent them from electrical failures and mechanical damage of the devices.
- 2. In the reflow soldering, soldering temperatures that are above specification and extreme gradients such as rapid heating or cooling may cause electrical failures and mechanical damage of the devices.

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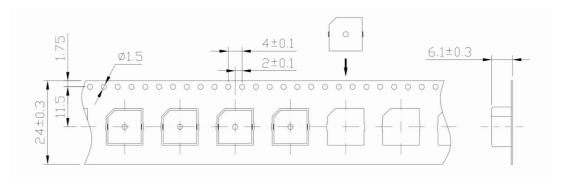
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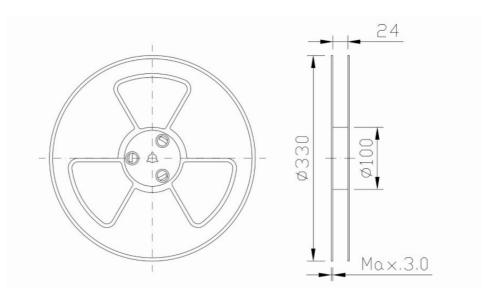
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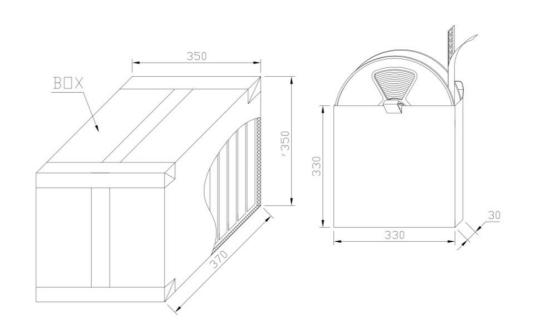
Packing

Dimension Of Carrier Tape





Dimension Of Plastic Reel



Page 4 Packing

Packing Order:

- 1. Per Reel: 600pcs
- 2. Per Carton: 10 Reels
- 3. Per Carton: 6,000pcs
- 4. Carton Size: 370x350x350mm

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