

WST BUZZER

Acoustic Product Specification

Product Number: WST-9650T-W



Release | Revision: A/2026

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Specifications			
Item	Unit	Specification	Condition
Rated Voltage	VDC	3.0	
Operating Voltage	VDC	2.0 ~ 5.0	
Mean Current	mA	30 Max.	At rated voltage
Tone/Pulse Rate		Continuous	
Sound Output	dB	Min.80	At 10cm at rated voltage
Oscillation Frequency	Hz	3000±300	
Operating Temp	°C	-20 ~ +70	
Storage Temp	°C	-30 ~ +80	
Dimension	mm	Ø9.6×H5.0	See attached drawing
Weight	gram	0.9	
Material		PBT(Black)	
Terminal		Lead Wire Type	UL1571,AWG#28,Length 260mm
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 the solder bath at +260±5°C for 3±1 seconds.	90% min. lead terminals shall be wet with solder.
Soldering Heat Resistance	The product follows the reflow temperature curve to test its reflow thermal stability.	No interference in operation.
Terminal Mechanical Strength	The force of 9.8N(1kg) is applied to each terminal in axial direction for 1 minute..	No damage and cutting off.
Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3G). The vibration test shall consist of 2 hours per axis in each three axes(X,Y,Z). A total 6 hours.	After the test, the part shall meet specifications without any damage in appearance and performance except SPL. The SPL should be in ±10dBA 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.	



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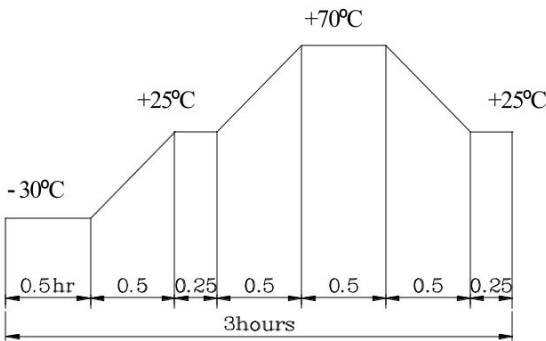
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Environment Test

Item	Test condition	Evaluation standard
High Temp. Test	The part is placed in a chamber at +80°C for 96 hours.	After the test, the part shall meet specifications without any degradation in appearance and performance except SPL. After 4 hours at +25°C, the SPL should be in ±10dBA compared with initial one.
Low Temp. Test	The part is placed in a chamber at -30°C for 96 hours.	
Thermal Shock	The part shall be subjected to 10 cycles.	
Temp./Humidity Cycle	The part shall be subjected to 5 cycles. One cycle shall be 3 hours and consist of:	



Reliability Test

Item	Test condition	Evaluation standard
Operating Life Test	Ordinary Temperature The part shall be subjected to 96 hours of continuous operation at +25°C±10°C at 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, the SPL should be in ±10dBA compared with initial one.
	High Temperature The part shall be subjected to 96 hours of continuous operation at +80°C at rated voltage applied.	
	Low Temperature The part shall be subjected to 96 hours of continuous operation at -30°C at rated voltage applied.	

Standard test condition:

- a) Temperature: +5~+35°C
- b) Humidity: 45~85%
- c) Pressure: 86~106KPa



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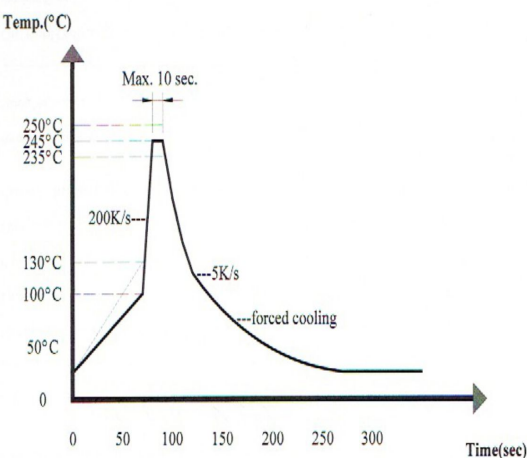
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Recommended Wave Soldering Temperature Curve

RECOMMENDED TEMPERATURE PROFILE

* Wave Soldering profile of lead-free



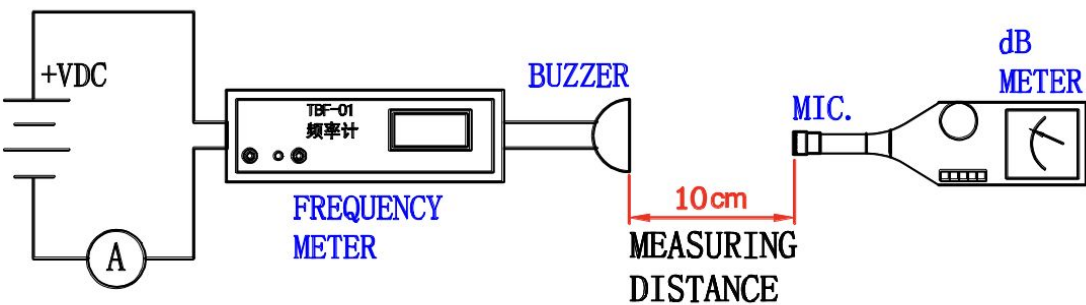
Recommendable wave soldering condition is as follows:

Note 1: It is requested that wave soldering should be executed after heat of product goes down to normal temperature.

Note 2: Peak wave temperature of 235°C maximum of 10 seconds.

Measurement Test Circuit

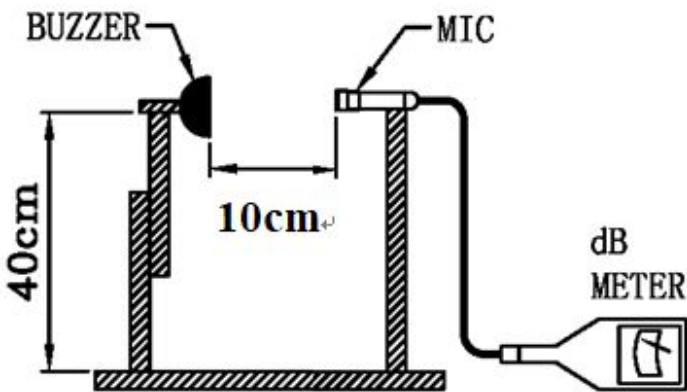
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below:



Inspection Fixture

S.P.L Measuring Circuit

Input Signal: 3.0 VDC, square wave, 1/2 duty, 3000 Hz



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

S.G: Hewlett Packard 33120A Function Generator or equivalent



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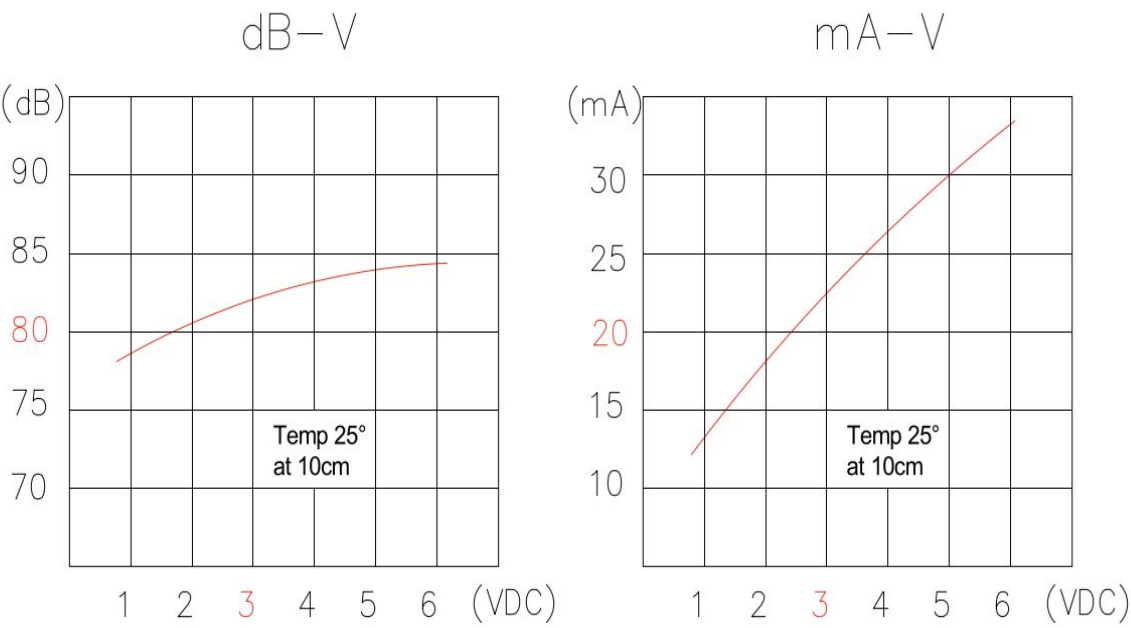
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Typical Frequency Response Curve

3.0VDC,50%duty square wave 10 cm





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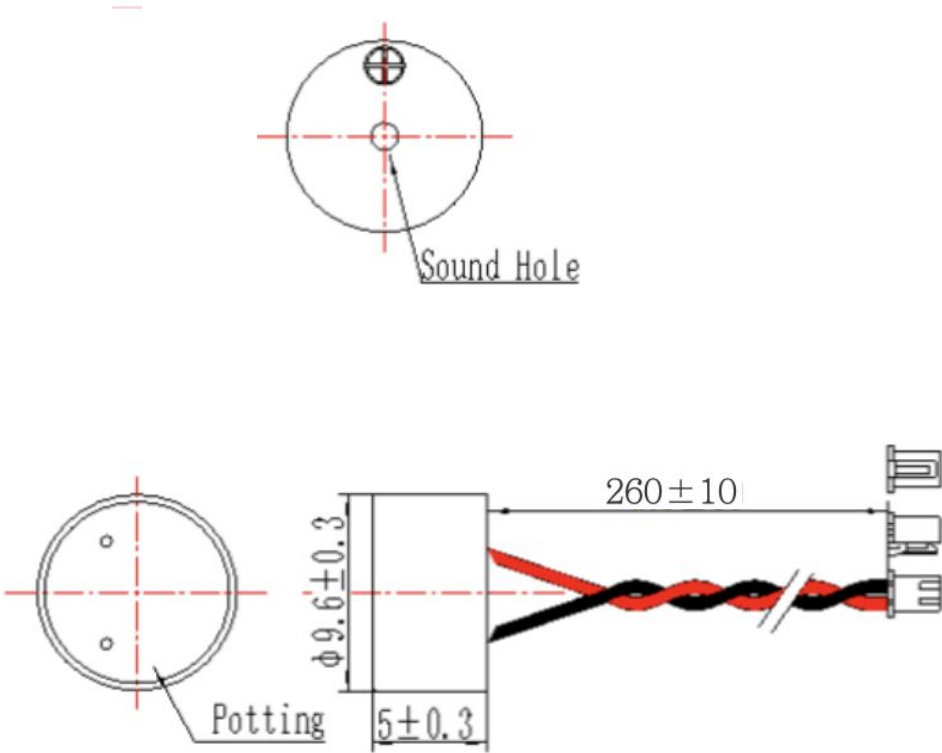
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Dimensions

Tolerance: ± 0.5 (unit: mm)



Lead Wire Length : 260mm
Wire Type: UL1571, AWG#28



Connector: A2005-H02, PHB-2Y



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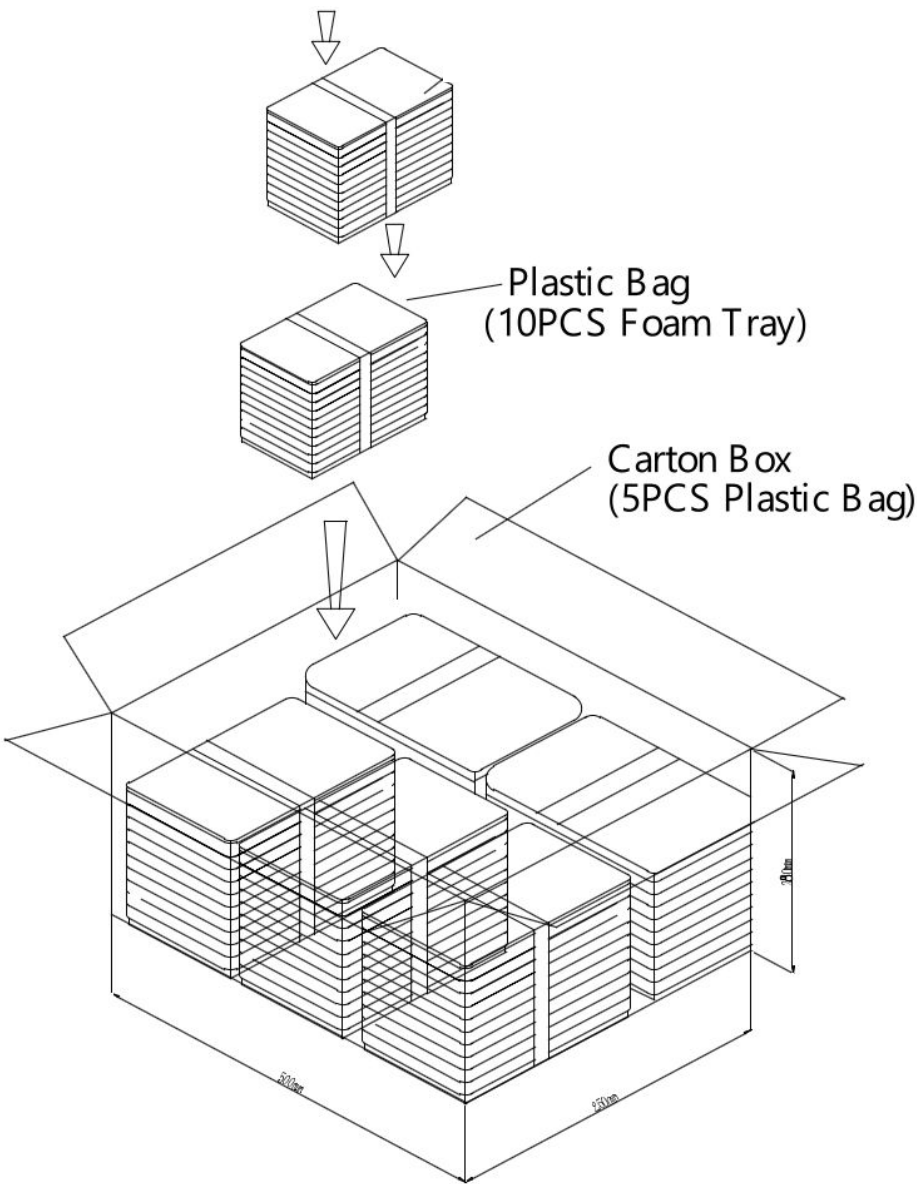
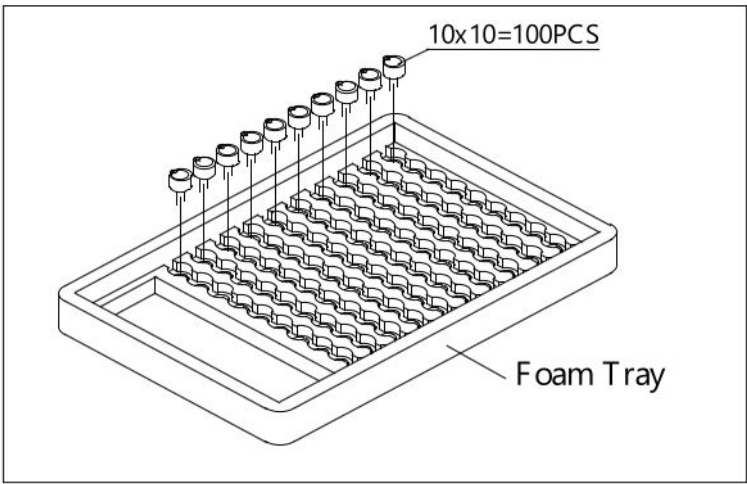
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Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton B ox	515mmx420mmx260mm	5x1000PCS=5,000PCS