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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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SPECIFICATION

Product Description : Electromagnetic Buzzer

Product Model : WST-1307S



211 N. First Street Minneapolis, MN. 55401

www.soberton.com

Acoustics Product Specification

Part No :

WST-1307S

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This specification applies Electromagnetic buzzer

SPECIFICATION

Test condition: TEMP= +25 ±2°C Related humidity= 65 ±5% Air pressure: 860 ~ 1060mbar

Item	Unit	Specification	Condition
Rated Voltage	VDC	5.0	
Operating Volt	VDC	3.0 ~ 7.0	
Mean Current	Ma	Max.40	At rated voltage direct current
Sound Output	dBA	90	At 10cm (A-weight free air) At rated voltage direct current
Rated Frequency	Hz	2400 ±200	
Operating Temp	°C	-30 ~ +85	
Storage Temp	°C	-40 ~ +85	
Dimension	mm	12.8 × 12.8 × 7.1	See attached drawing.
Weight	gram	2.0	
Material		PPS(Gray)	
Terminal		SMD Type (Plating Sn)	See attached drawing
Environmental Protection Regulation		RoHS	

Acoustics Product Specification

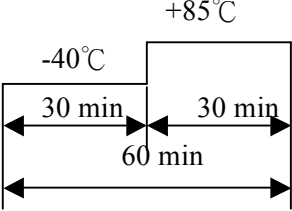
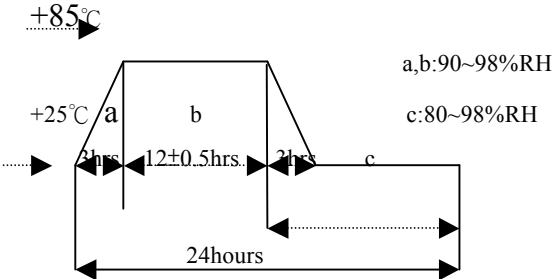
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ENVIRONMENT TEST

	Item	Test condition	Evaluation standard
	High temp. test	After being placed in a chamber at +80°C for 96 hours.	After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at +25°C . The SPL will be in ±10dBA compared with initial one.
	Low temp. test	After being placed in a chamber at -40°C for 96 hours.	
	Thermal shock	<p>The part will be subjected to 10 cycles. One cycle shall consist of</p> 	
	Temp./Humidity Cycle	<p>The part will be subjected to 10 cycles. One cycle shall be 24 hours and consist of;</p> 	

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RELIABILITY TEST

Item	Test condition	Evaluation standard
Operating life test	<ol style="list-style-type: none">1. Ordinary temperature The part will be subjected to 96 hours of continuous operation at room temperature (+25 ±10°C) with 5V.2. High temperature The part will be subjected to 72 hours of continuous operation at +60°C with 5V applied3. Low temperature The part will be subjected to 72 hours of continuous operation at -20°C with 5V applied4. High and Low Voltage Applying 4 voltage and 7 voltage, available time 24 hours each	<p>After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at +25°C .</p> <p>The SPL would be in ±10dBA compared with initial one.</p>

TEST CONDITION

Standard Test Condition : a)Temperature: +5~+35°C b)Humidity:45~85% c)Pressure: 860~1060mbar

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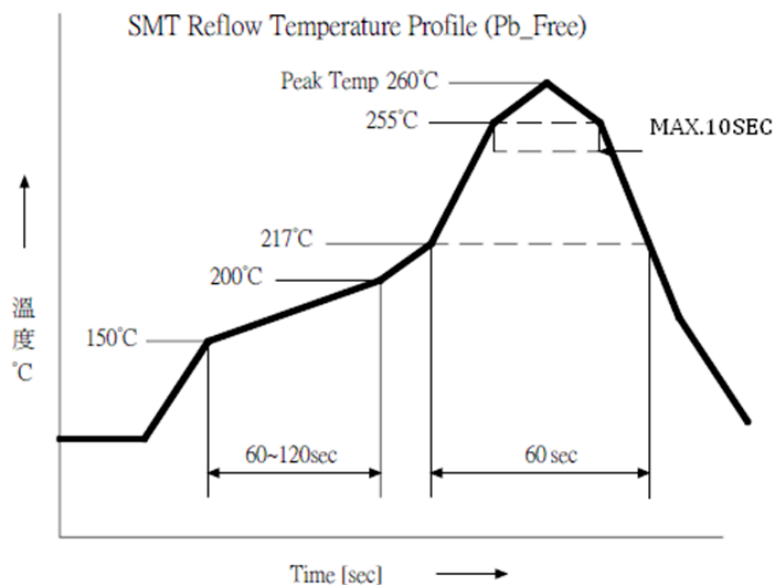
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MECHANICAL CHARACTERISTICS

Item	Test condition	Evaluation standard
Solder ability	Lead terminal are immersed in rosin for 5 seconds and then immersed in solder bath of $+250 \pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds	90% min. lead terminals shall be wet with solder No interference in operation
Soldering Heat Resistance	Lead terminal are immersed in soldering bath of $+250 \pm 5^{\circ}\text{C}$ for 2 ± 0.5 seconds.	
Terminal Mechanical Strength	Apply the terminal with 1KG strength for 1 minute	No damage and cutting off
Vibration	The part will be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude will be 1.52mm(9.3G). The vibration test will consist of 2 hours per axis in each three axes(X,Y,Z). Total 6 hours	After the test the part will meet specifications without any damage in appearance and performance except SPL.
Drop test	The part only will be 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	The SPL would be 80dBA compared with initial one. .

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE :



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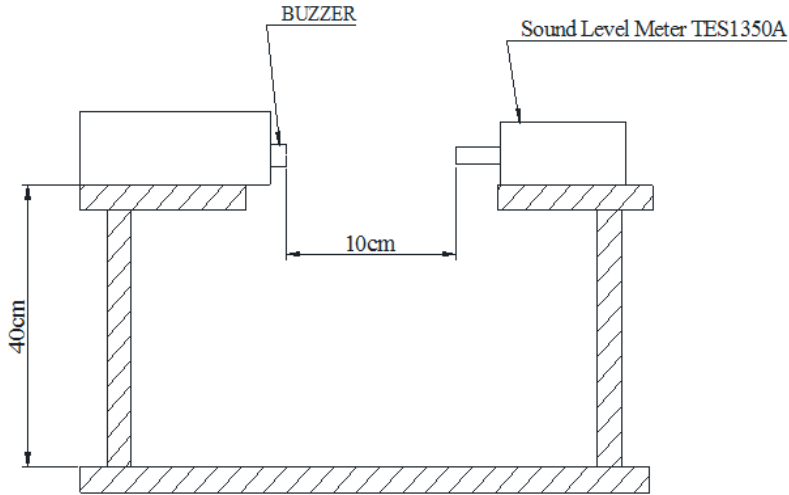
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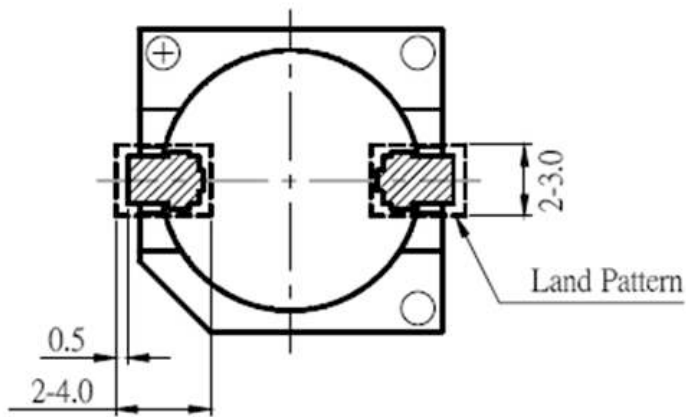
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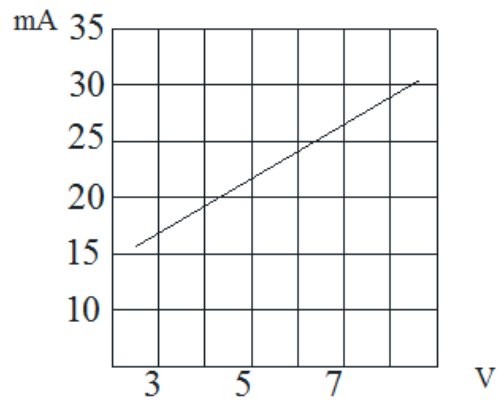
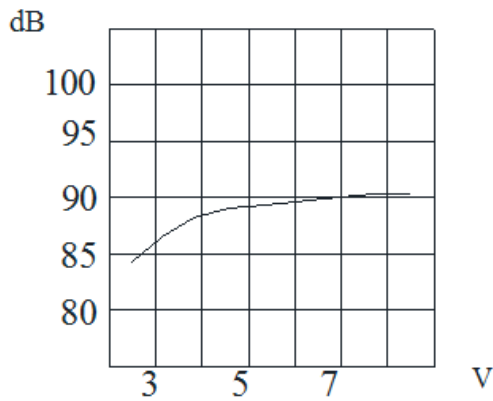
INSPECTION FIXTURE



RECOMMENDED LAND PATTERN



FREQUENCY RESPONSE



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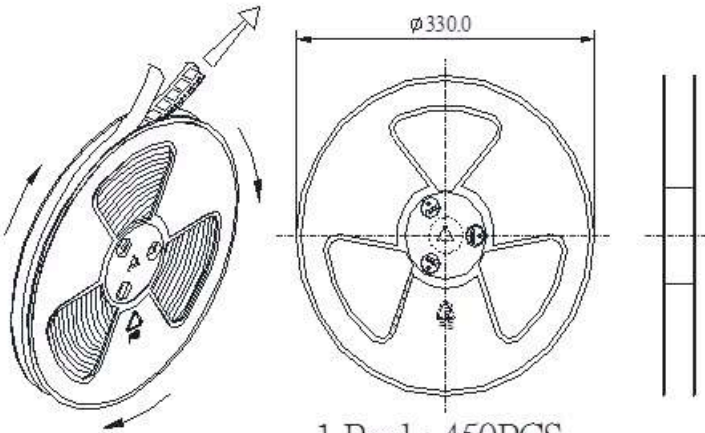
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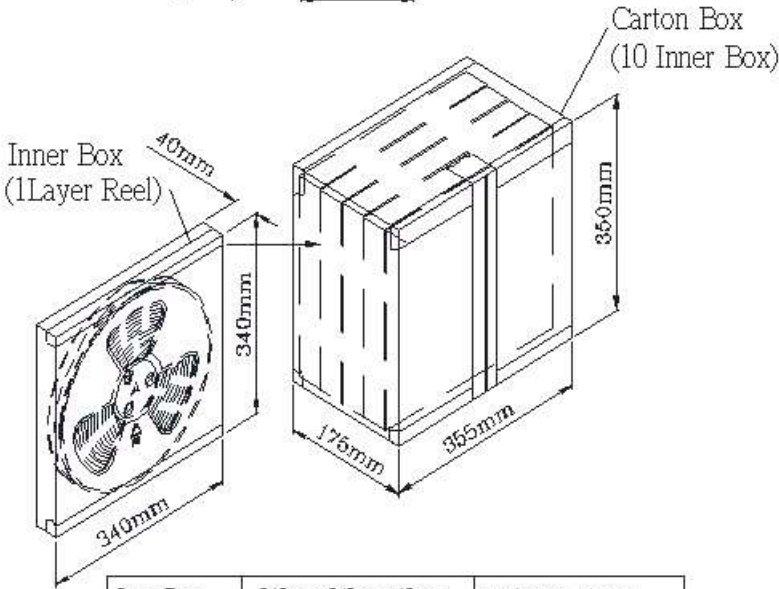
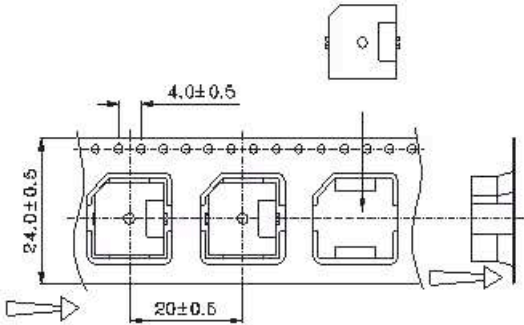
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PACKING



1 Reel : 450PCS



Inner Box	340mmx340mmx40mm	1x450PCS=450PCS
Carton Box	350mmx355mmx175mm	10x450PCS=4500PCS

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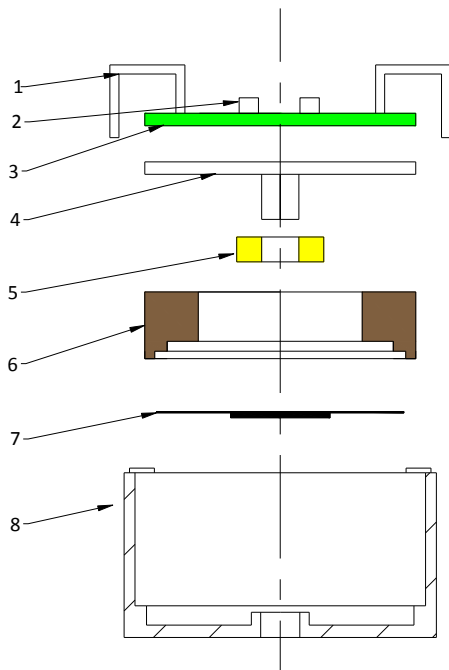
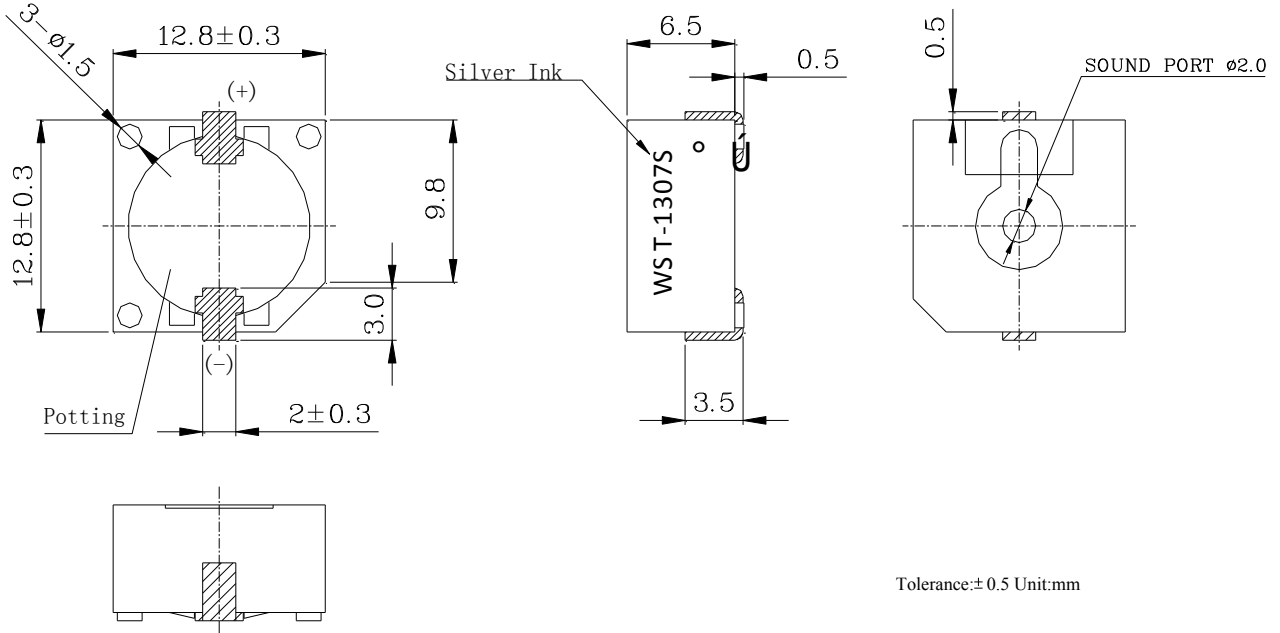
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DIMENSION



8	CASE	PPS	1
7	Diaphragm	Ferrum	1
6	Magnet ring	Poly+ ferrite	1
5	Coil	Copper	1
4	Core	Ferrum	1
3	PCB	Epoxy glass fiber cloth+ Copper	1
2	Transistor	Epoxy + Copper	2
1	PIN	Copper	2
No.	Components	Material	QTY

