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SPECIFICATION

Product Description : Electromagnetic Buzzer

Product Model : WT-1310 Rev A/2017



211 N. First Street, Minneapolis, MN. 55401

<http://www.soberton.com>

Acoustics Product Specification

Part No :

WT-1310

Edition : A/2017

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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 Voltag	Vo-p	5.0	
Operating Volt	Vo-p	3.0 ~ 7.0	
Mean Current	mA	Max.40	At rated voltage direct current
Coil Resistance	Ω	47 ±5	
Sound Output	dBa	87	At 10cm(A-weight free air) At rated voltage direct current
Rated Frequency	Hz	2400 ±200	
Operating Temp	°C	-30 ~ +70	
Storage Temp	°C	-40 ~ +80	
Dimension	mm	12.8 × 12.8 × 10.0	See attached drawing.
Weight	gram	2.5	
Material		PPS(Gray)	
Terminal		SMD Type (Plating Sn)	See attached drawing
Environmental Protection Regulation		RoHS	

Acoustics Product Specification

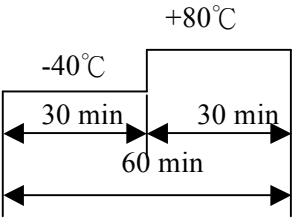
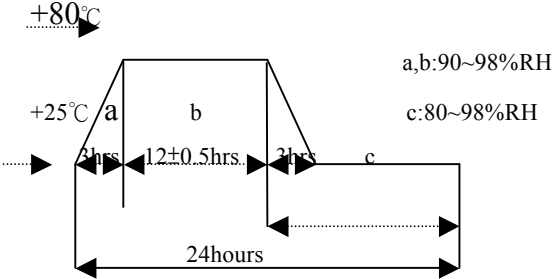
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ENVIRONMENT TEST

	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 shall be subjected to 96 hours of continuous operation at room temperature $+25 \pm 10^{\circ}\text{C}$ with 5.0V, 2400Hz2. High temperature The part shall be subjected to 72 hours of continuous operation at $+70^{\circ}\text{C}$ with 5.0V, 2400Hz applied2. Low temperature The part shall be subjected to 72 hours of continuous operation at -30°C with 5.0V, 2400Hz applied	After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at $+25^{\circ}\text{C}$. The SPL would be in $\pm 10\text{dBA}$ compared with initial one.

TEST CONDITION

Standard Test Condition : a)Temperature: $+5\sim+35^{\circ}\text{C}$ b)Humidity:45~85% c)Pressure: 860~1060mbar

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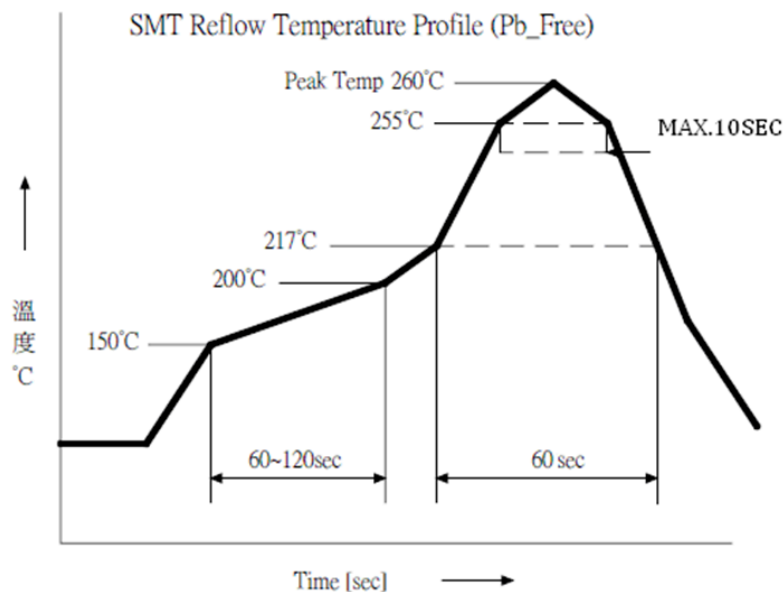
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MECHANICAL CHARACTERISTICS

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 will 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. The SPL should be
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	80dBA compared with initial one. ◦

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE :



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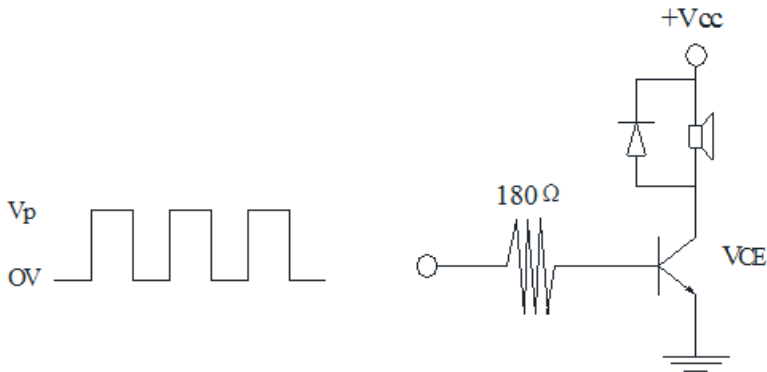
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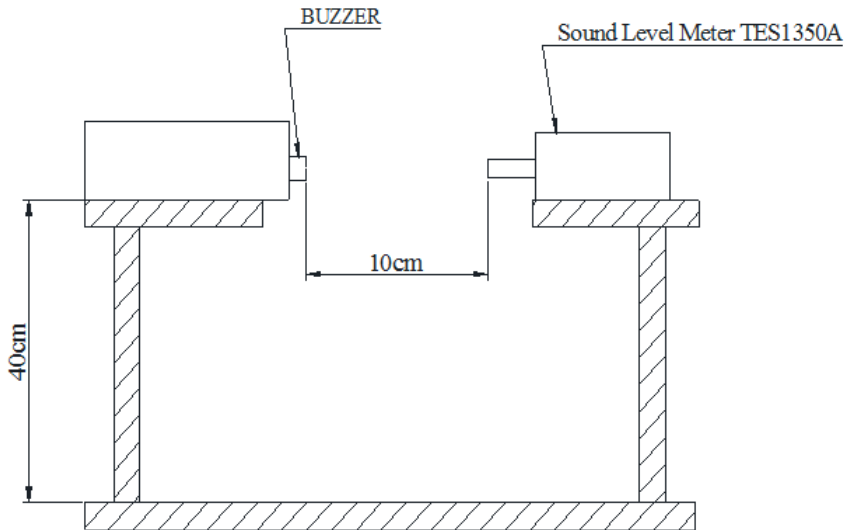
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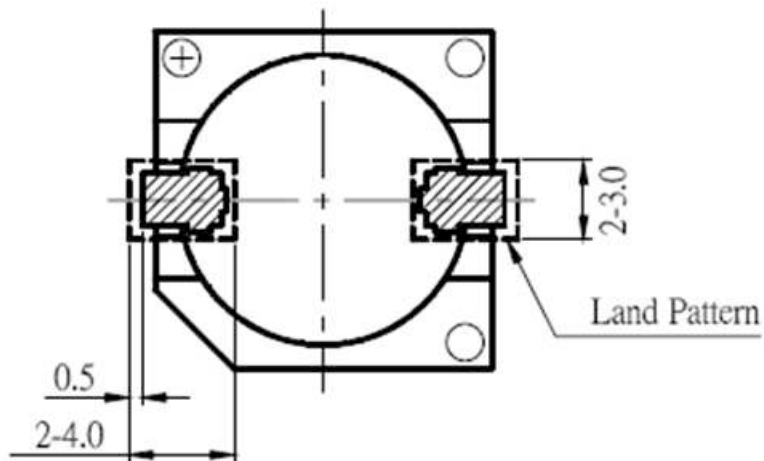
MEASUREMENT METHOD



INSPECTION FIXTURE



RECOMMENDED LAND PATTERN



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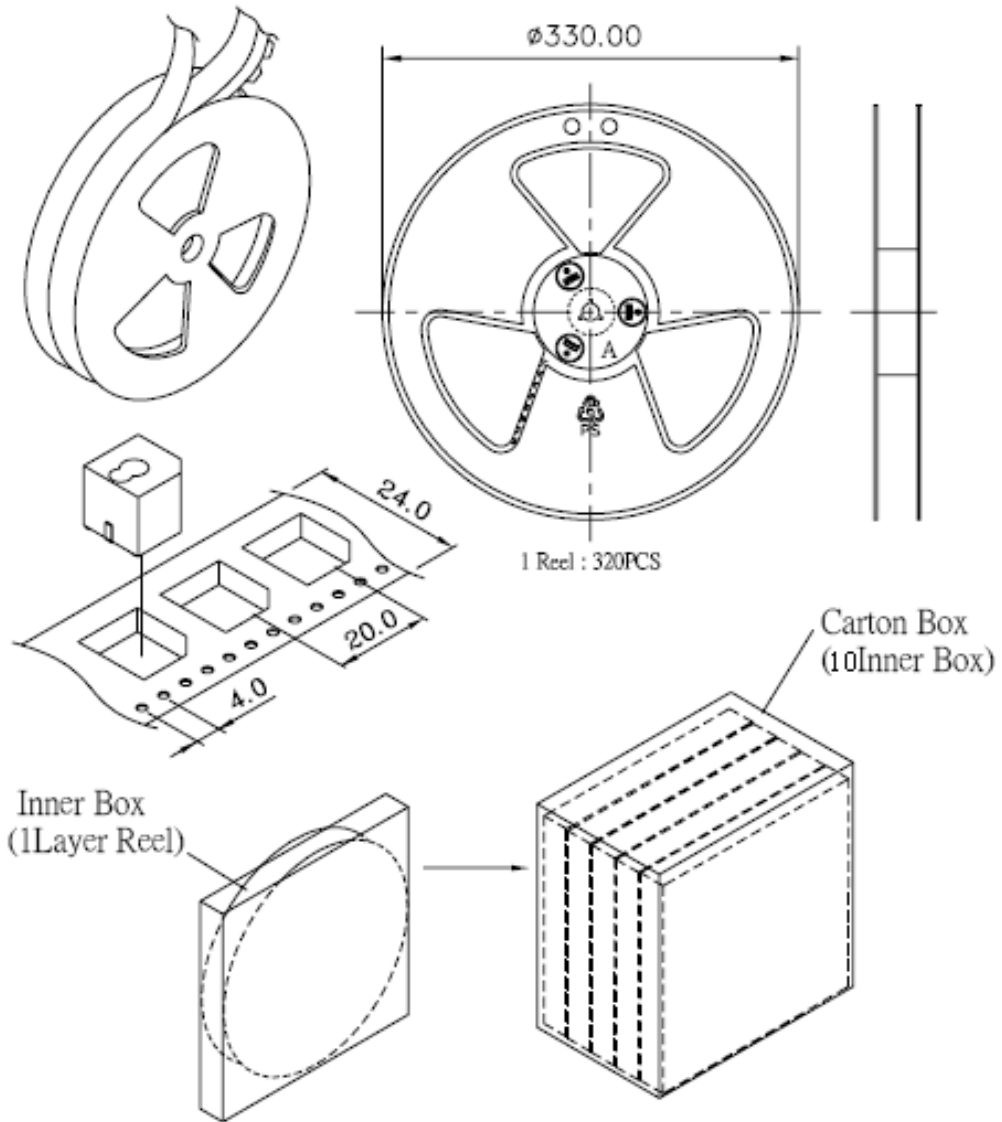
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PACKING



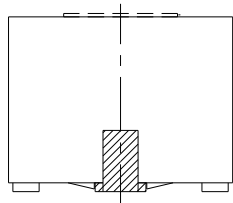
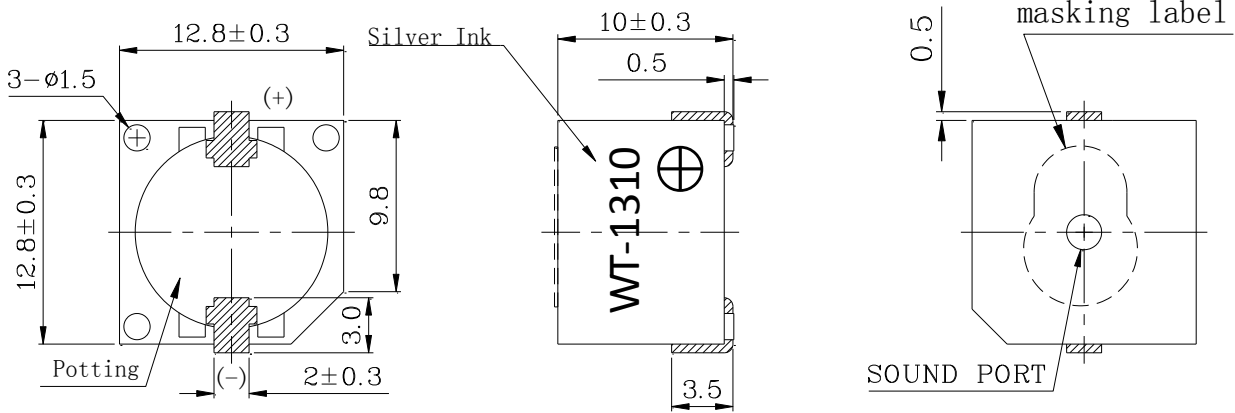
Inner Box	340mmx340mmx40mm	1x320PCS=320PCS
Carton Box	360mmx360mmx420mm	10x320PCS=3,200PCS

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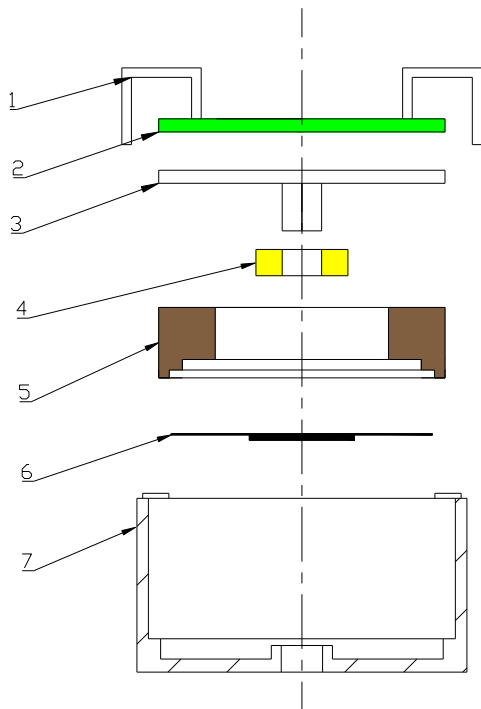
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DIMENSION



Tolerance:± 0.5 Unit:mm



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