



**MODEL:** WST-0905S  
**PRODUCT:** Electromagnetic Buzzer  
**EDITION:** A/2016

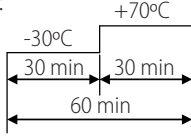
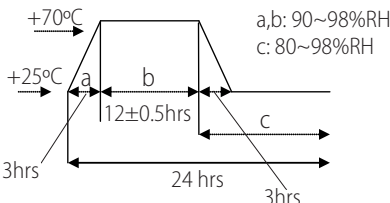
**THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER**

**SPECIFICATION**

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

item	unit	specification	condition
rated voltage	Vo-p	5.0	
operating volt	Vo-p	4.0 ~ 6.0	
mean current	mA	Max.35	At rated voltage direct current
sound output	dba	83	At 10cm(A-weight free air), at rated voltage direct current
rated frequency	Hz	2730 ± 300	
operating temp	°C	-20 ~ +60	
storage temp	°C	-30 ~ +70	
dimension	mm	φ9.0×H5.0	See attached drawing
weight	gram	0.6	
material		PPO (Black)	
terminal		Pin type (Plating Sn)	See attached drawing
environmental protection regulation		RoHS	

**ENVIRONMENT TEST**

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +70°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 -30°C for 96 hours.	
thermal shock	The part will be subjected to 10 cycles. One cycle shall consist of: 	
temp./humidity cycle	The part will be subjected to 10 cycles. One cycle shall be 24 hours and consist of: 	



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## RELIABILITY TEST

item	test conditions	evaluation standard
operating life test	ORDINARY TEMPERATURE The part will be subjected to 96 hours of continuous operation at $+25 \pm 10^{\circ}\text{C}$ .	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.
	HIGH TEMPERATURE The part will be subjected to 72 hours of continuous operation at $+60^{\circ}\text{C}$ with 5.0V applied.	
	LOW TEMPERATURE The part will be subjected to 72 hours of continuous operation at $-20^{\circ}\text{C}$ with 5.0V applied.	
	HIGH AND LOW VOLTAGE Applying 4 voltage and 6 voltage, available time 24 hours each.	

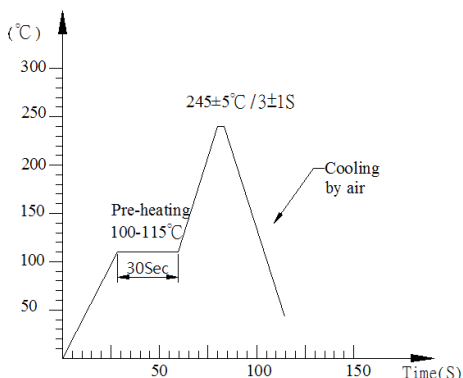
### TEST CONDITION

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

## MECHANICAL CHARACTERISTICS

item	test conditions	evaluation standard
solderability	Lead terminal are immersed in rosin for 5 seconds and then immersed in solder bath of $+260 \pm 5^{\circ}\text{C}$ for $3 \pm 0.5$ 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 $+260 \pm 5^{\circ}\text{C}$ for $2 \pm 0.5$ seconds.	
terminal mechanical strength	Apply the terminal with 1KG tension 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 would be in $\pm 80\text{dBA}$ compared with initial one.
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). Total of 9 times.	

## RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE

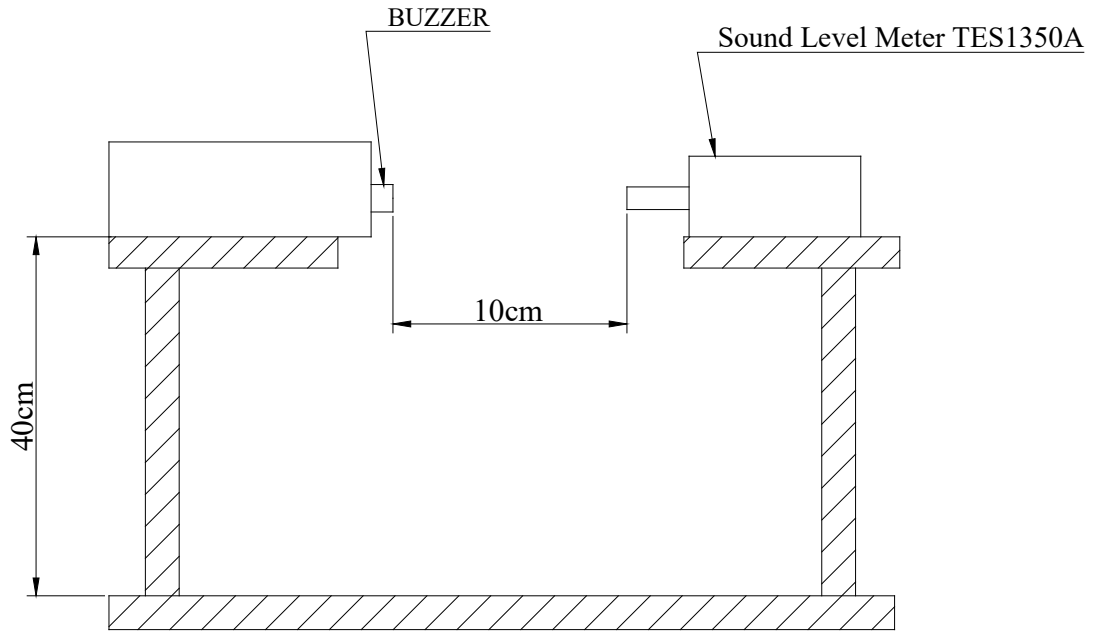




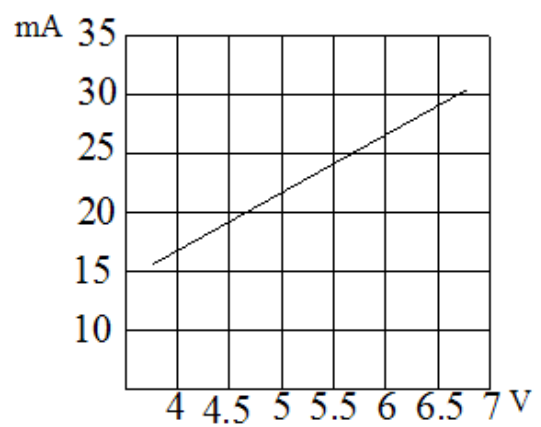
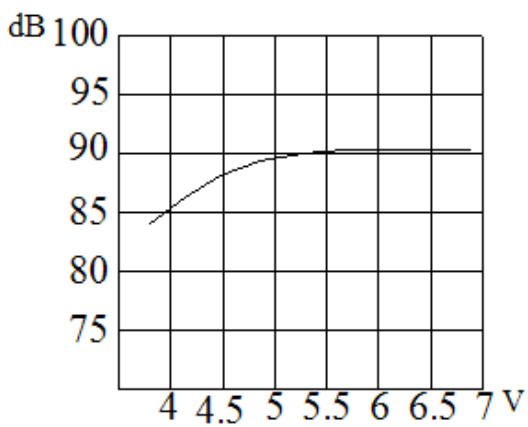
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### INSPECTION FIXTURE



### FREQUENCY RESPONSE

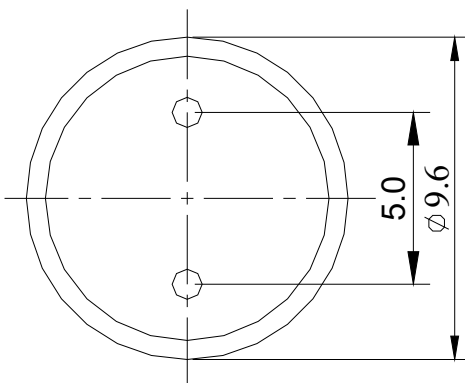
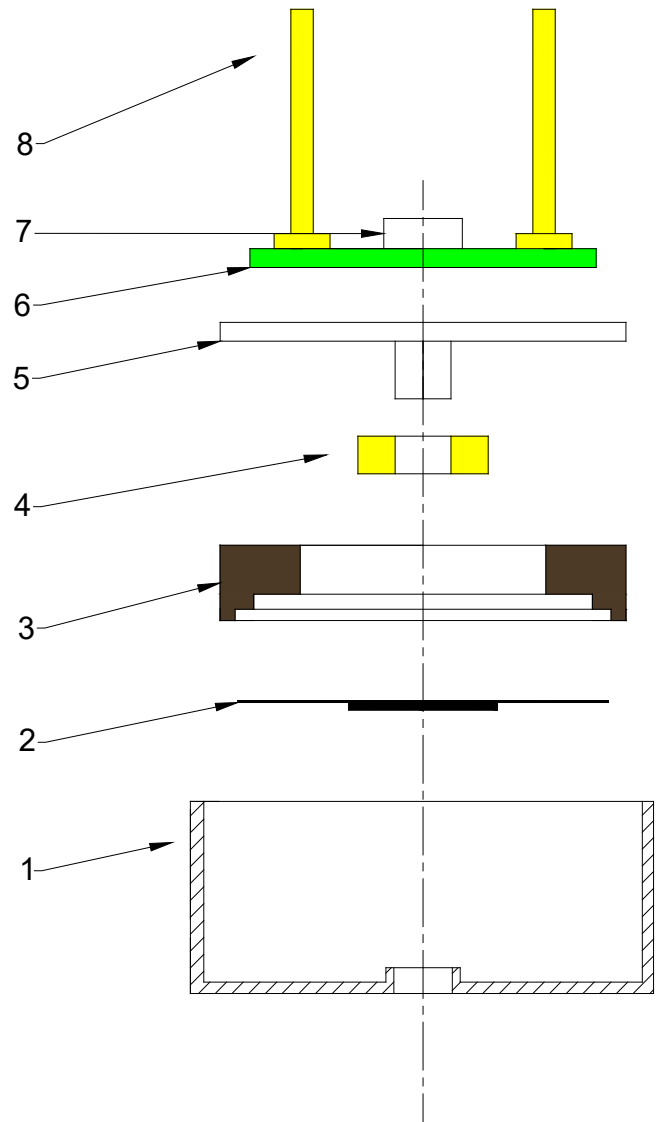
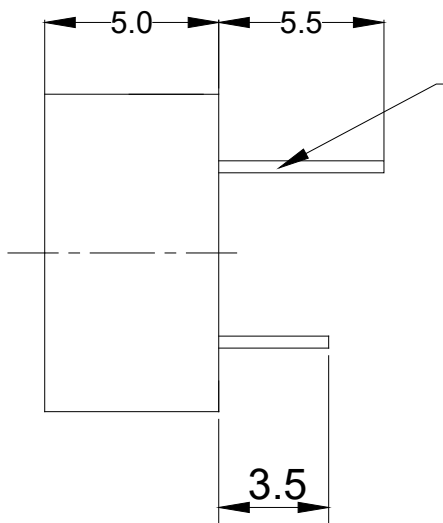
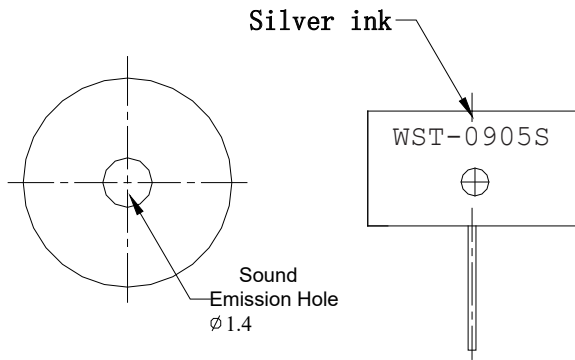




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**DIMENSIONS**

Tolerance: ±0.5 (unit: mm)



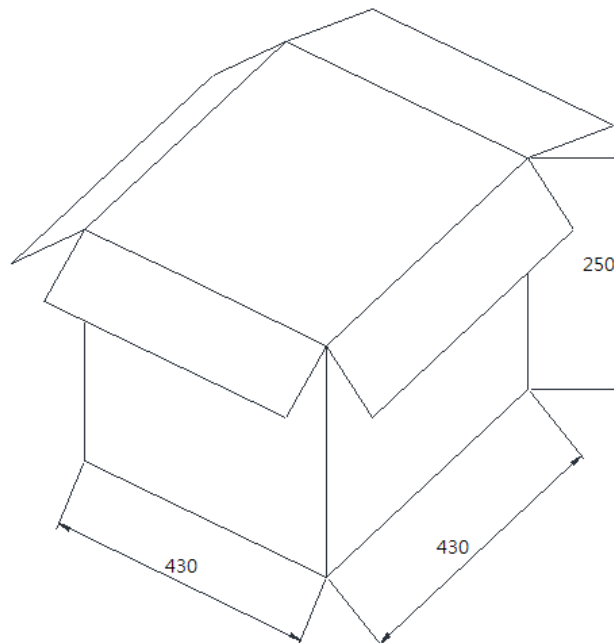
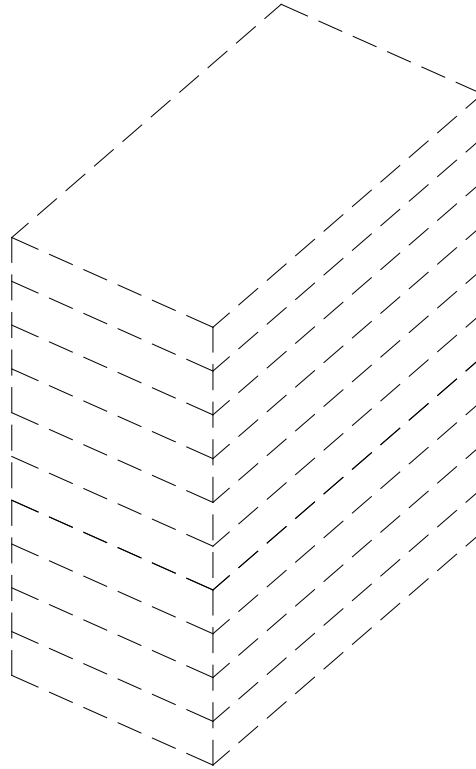
no	item	material	quantity
1	CASE	PPO	1
2	Diaphragm	Ferrum	1
3	Magnet ring	Poly+ferrite	1
4	Coil	Copper	1
5	Core	Ferrum	1
6	PCB	Epoxy glass fiber cloth + copper	1
7	Transistor	Epoxy + copper	1
8	PIN	Copper	2



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## PACKING



packing box	LxWxH (mm)	pieces
Tray	190x190x25	100
Inner cartons	210x210x220	1600
Outer cartons	430x430x250	6000