



**MODEL:** WT-1612  
**PRODUCT:** Electromagnetic Buzzer  
**EDITION:** A/2017

**THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER**

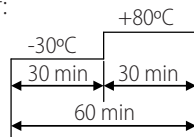
**SPECIFICATION**

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

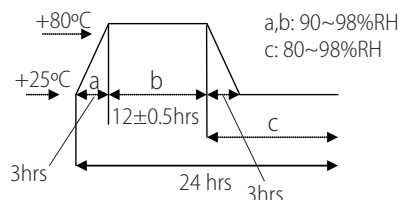
item	unit	specification	condition
rated voltage	Vo-p	12.0	
operating volt	Vo-p	10.0 ~ 14.0	
mean current	mA	40 Max	At rated voltage 2048Hz, square wave, 1/2 duty
coil resistance	Ω	115±18	
sound output	dBA	85	At 10cm(A-weight free air), at rated voltage 2048Hz, square wave, 1/2duty
rated frequency	Hz	2048	
operating temp	°C	-20 ~ +70	
storage temp	°C	-30 ~+80	
dimension	mm	φ16.0 x H 14.0	See attached drawing
weight	gram	7.0	
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 +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 -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 room temperature.	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 would be in $\pm 10$ dBA compared with initial one.
	HIGH TEMPERATURE The part will be subjected to 72 hours of continuous operation at +60°C with 12.0V, 2048Hz applied.	
	LOW TEMPERATURE The part will be subjected to 72 hours of continuous operation at -20°C with 12.0V, 2048Hz applied.	

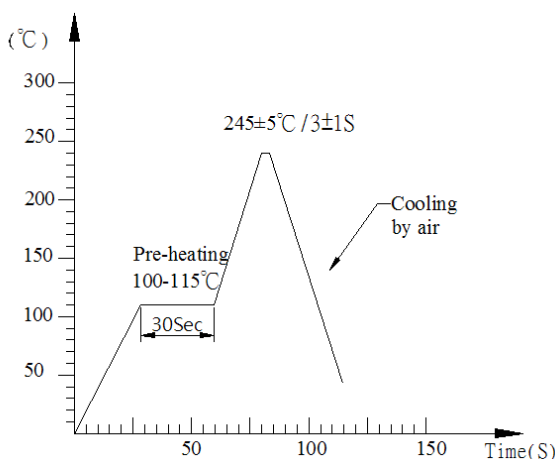
### TEST CONDITION

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

## MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
solderability	Lead terminals are immersed in solder bath of +250 $\pm$ 5°C for 3 $\pm$ 1 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°C for 2 $\pm$ 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. SPL would be in $\pm 10$ 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 TEMPERATURE PROFILE FOR REFLOW OVEN



Recommendable wave soldering condition is as follows:

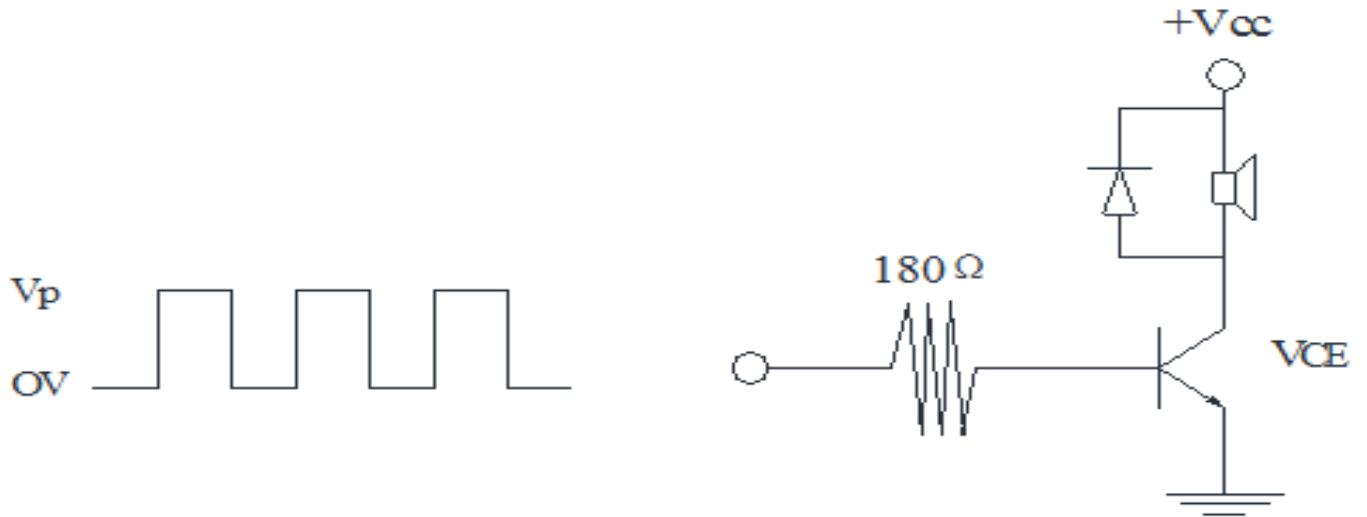
Note 1: It is requested that reflow soldering should be executed after heat of product goes down to normal temperature.

Note 2: Peak reflow temperature of 250°C maximum of 10 seconds, with a maximum duration of 40-60 seconds between 220°C and 250°C

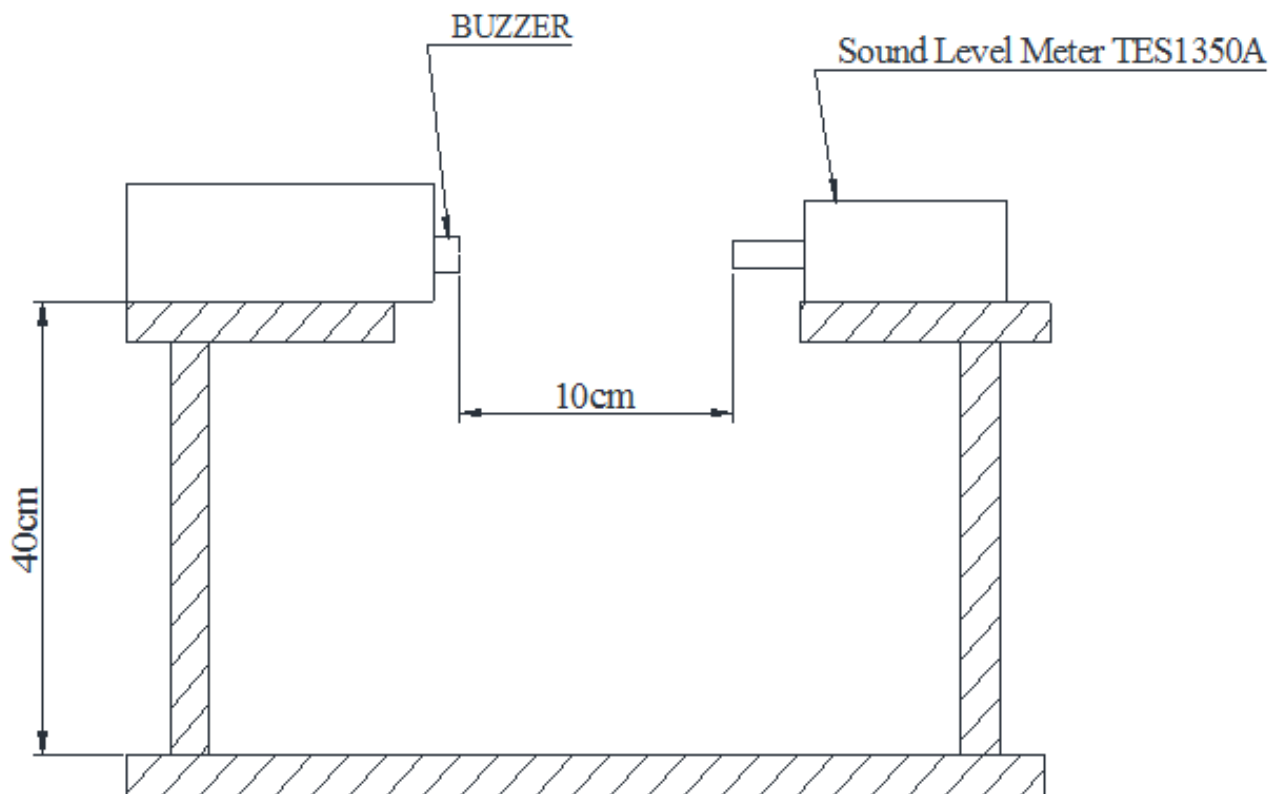


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### MEASUREMENT TEST CIRCUIT



### INSPECTION FIXTURE

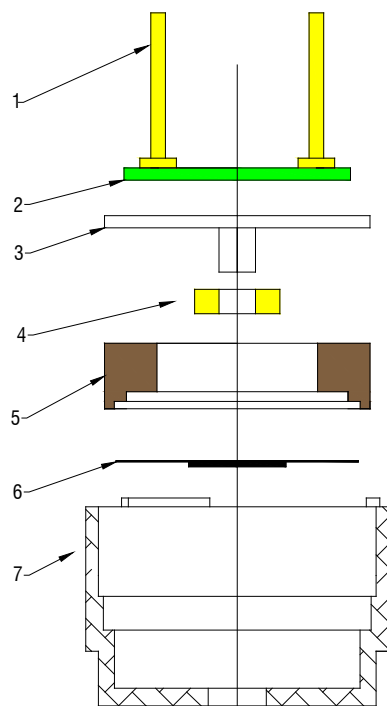
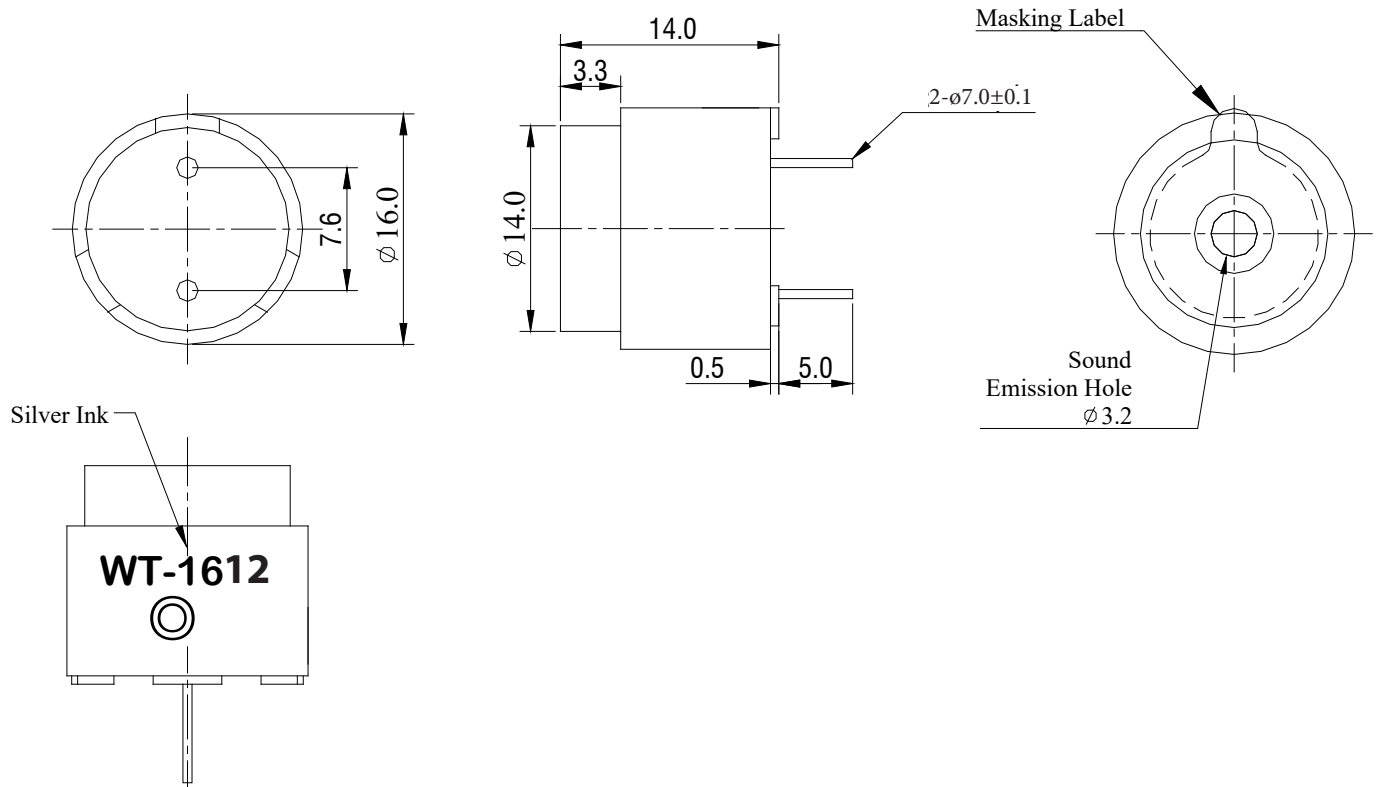




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**DIMENSIONS**

Tolerance: ±0.5 (unit: mm)

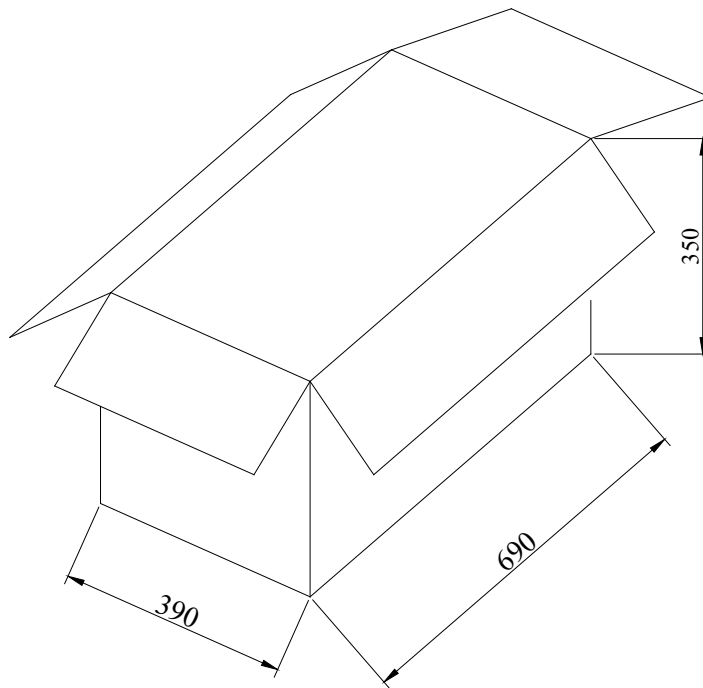
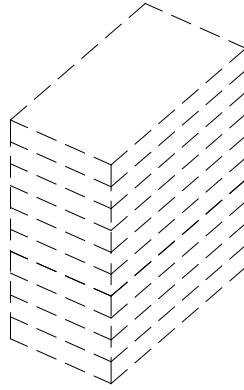


no	item	material	quantity
1	PIN	Copper	2
2	PCB	Epoxy glass fiber cloth + Copper	1
3	Core	Ferrum	1
4	Coil	Copper	1
5	Magnet ring	Poly + Ferrite	1
	Diaphragm	Ferrum	1
6	CASE	PPO	1



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**PACKING**



size	l x w x h	quantity
tray	320x70x28	50 pcs
inner box	340x190x310	500 pcs
carton box	690x390x350	2000 pcs