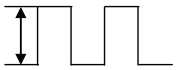
PART NO: GT-111P
PRODUCT: Electromagnetic Buzzer
EDITION: A/2017

Soberton Inc.

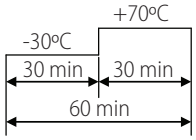
THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER

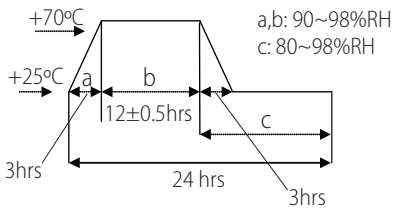
SPECIFICATION

TEST CONDITION: TEMP= +25 ±2ºC RELATED HUMIDITY= 65 ±5% AIR PRESSURE: 860 ~ 1060MBAR

item	unit	specification	condition
rated voltage	Vo-p	1.5	Vo-p  0V
operating volt	Vo-p	1.0 ~ 3.0	
mean current	mA	Max.10	At rated voltage 2048Hz, square wave, 1/2 duty
coil resistance	Ω	50 ±7.5	
sound output	dBA	80	At 10cm (A-weight free air), At rated voltage 2048Hz, square wave, 1/2duty
rated frequency	Hz	2048	
operating temp	ºC	-20 ~ +60	
storage temp	ºC	-30 ~ +70	
dimension	mm	φ12.0× H8.5	See attached drawing
weight	gram	1.6	
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 +70ºC for 96 hours.	After the test the part will meet specifications without any degradation in appearance and performance except SPL. After 2 hours at +25ºC. The SPL will be in ±10dBA compared with initial one.
low temp. test	After being placed in a chamber at -30ºC for 96 hours.	
thermal shock	The part will be subjected to 5 cycles. One cycle shall consist of: 	
temp./humidity cycle	The part will be subjected to 5 cycles. One cycle shall be 24 hours and consist of:	



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 2 hours at +25ºC. The SPL would be in ±10dBA compared with initial one.
	HIGH TEMPERATURE High temperature The part will be subjected to 96 hours of continuous operation at +60ºC with 1.5V, 2048Hz applied.	
	LOW TEMPERATURE The part will be subjected to 96 hours of continuous operation at -20ºC with 1.5V, 2048Hz applied	

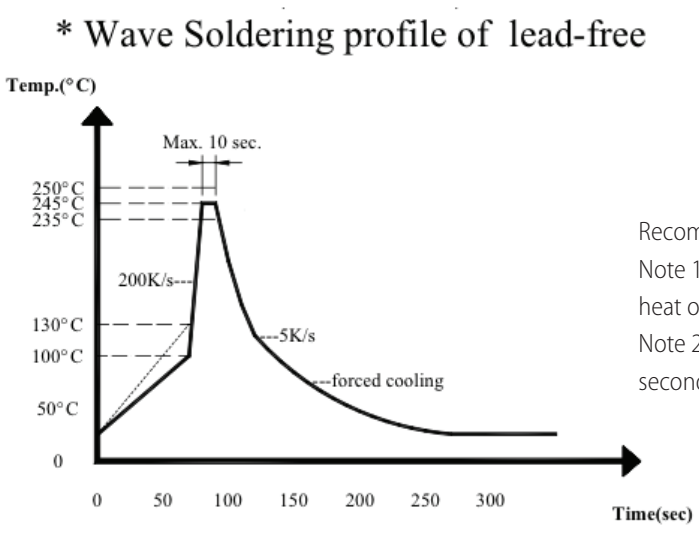
TEST CONDITION

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

MECHANICAL CHARACTERISTICS

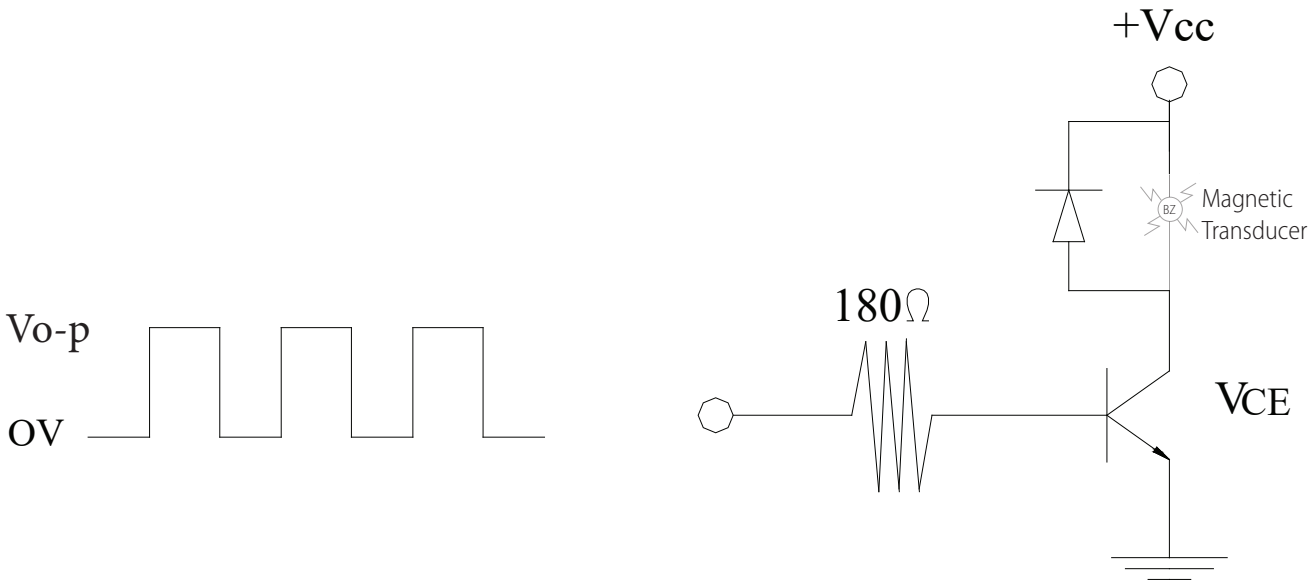
item	test conditions	evaluation standard
terminal mechanical strength	Apply the terminal with 9.8N(1kg) strength for 10 ±1 seconds.	No damage and cutting off.
vibration	The part will be subjected to a vibration cycle of 10Hz to 55Hz in a period of 1 minute. Total peak amplitude will be 1.52mm(9.3G). The vibration test shall consist of 2 hours per axis in each three axes (X,Y,Z).	After the test the part will meet specifications without any damage in appearance and performance except SPL. The SPL would be in ±10dBA compared with initial one.
drop test	The part only will be dropped from a height of 75cm onto a 40mm thick wooden board 1 time.	

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE

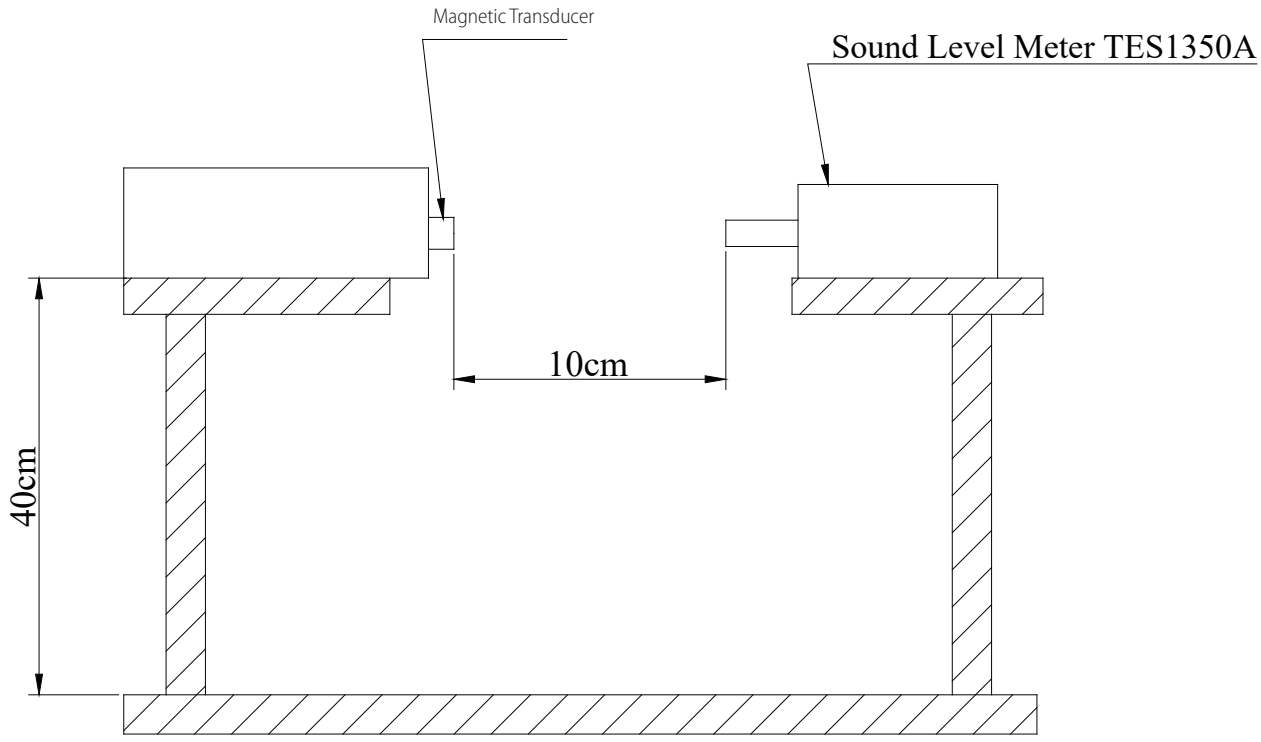


Recommendable wave soldering condition is as follows:
Note 1: It is requested that wave soldering should be executed after heat of product goes down to normal temperature.
Note 2: Peak wave temperature of 235˚C ~ 250˚C maximum of 10 seconds.

MEASUREMENT TEST CIRCUIT

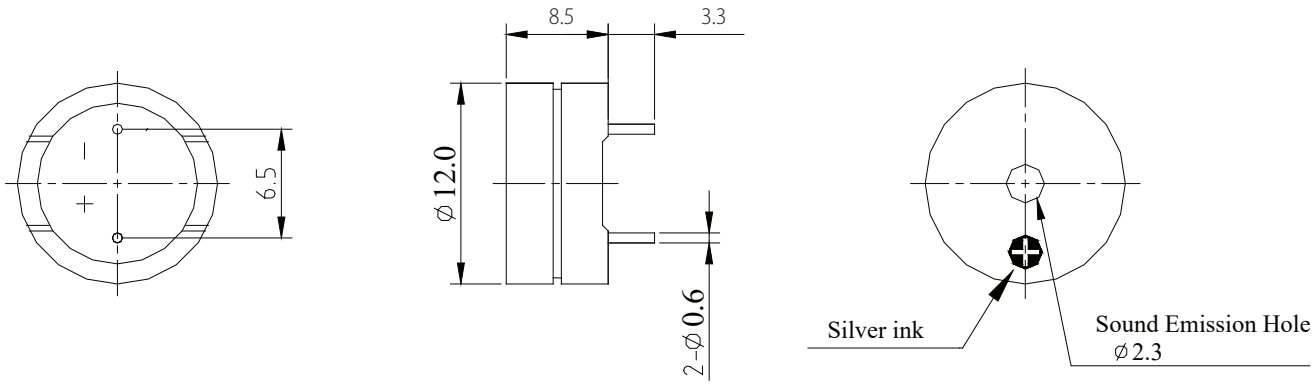


INSPECTION FIXTURE

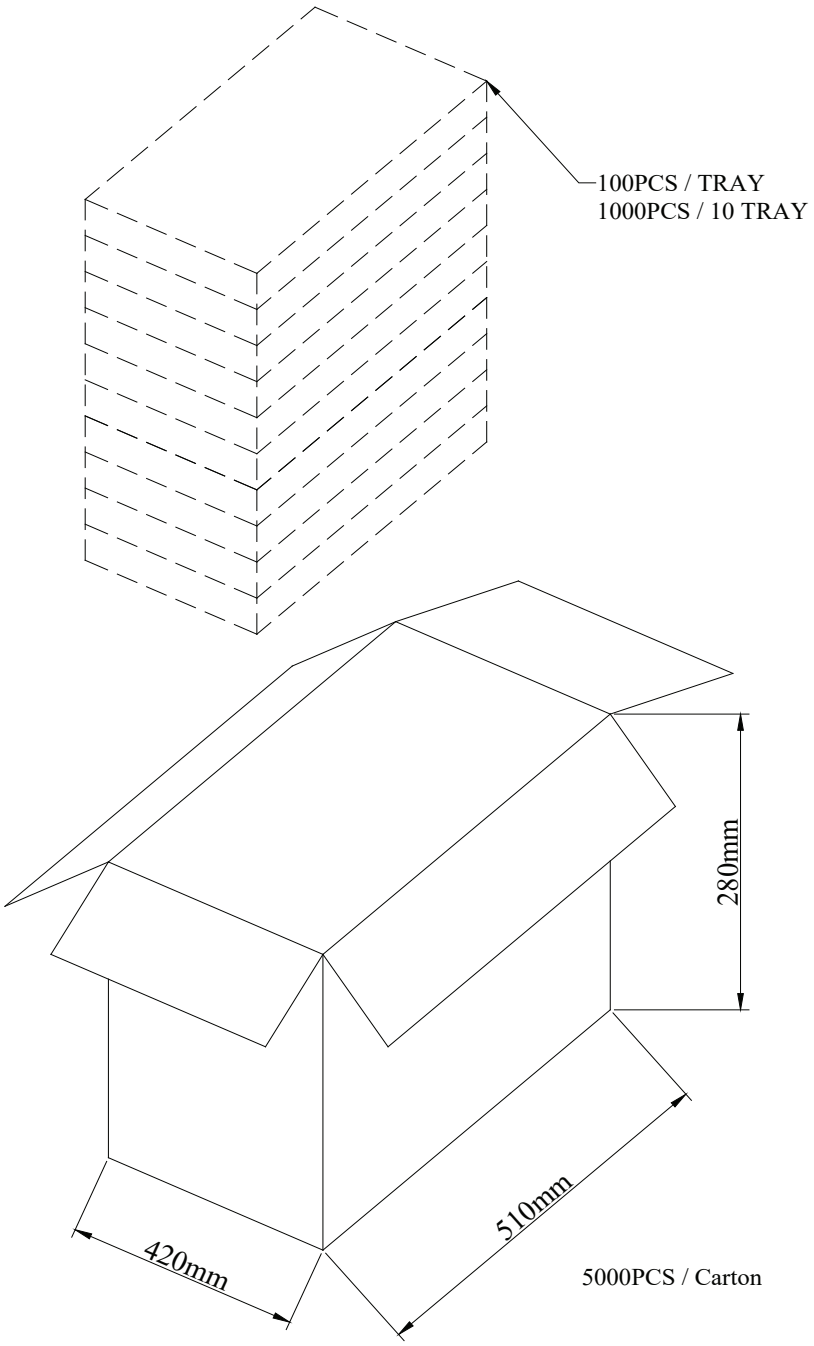


DIMENSIONS

Tolerance:±0.5 (unit: mm)



PACKING


100PCS / TRAY
1000PCS / 10 TRAY
280mm
510mm
420mm
5000PCS / Carton