



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**MODEL:** GT-111PS-1  
**PRODUCT:** Electromagnetic Buzzer  
**EDITION:** A/2016

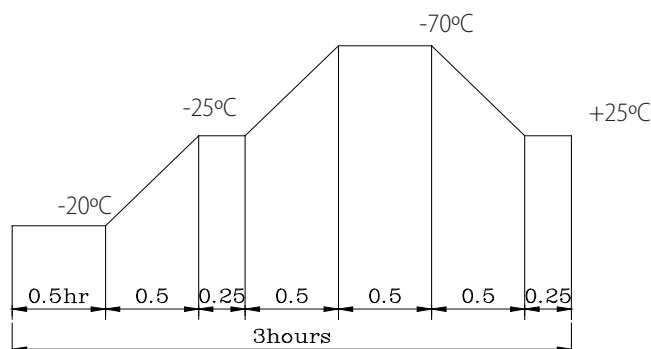
**THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER**

**SPECIFICATION**

item	unit	specification	condition
oscillation frequency	Hz	2048	Vo-p=1/2 duty, square wave
operating voltage	Vo-p	1.0 ~ 3.0	
rated voltage	Vo-p	1.5	
current consumption	mA	MAX.15	At rated voltage
sound pressure level	dB	MIN.70	At 10cm at rated voltage
coil resistance	Ω	50 ± 7	
operating temperature	°C	-20 ~ +60	
storage temperature	°C	-20 ~ +70	
dimension	mm	φ12.0 × H5.4	See attached drawing
weight (max)	gram	2.0	
housing material		PPO	
leading pin		Tin plated brass(Sn)	See attached drawing
environmental protection regulation		RoHS	

**RELIABILITY TEST**

item	test condition and requirement
high temperature test (storage)	After being placed in a chamber with 80±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
low temperature test (storage)	After being placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
humidity test	After being placed in a chamber with 90 ~ 95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
temperature cycle test	The part will be subjected to 5 cycles. One cycle shall be consist of:



Allowable variation of SPL after test: 10dB.



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**RELIABILITY TEST (CONTINUED)**

item	test condition and requirement
drop test	Drop on a hard wood board of 4cm thick, any directions , 6 times, at the height of 75 cm . Allowable variation of SPL after test: $\pm 10$ dB
vibration test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: $\pm 10$ dB.
solderability test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300 \pm 5^\circ\text{C}$ for $3 \pm 1$ seconds . 90% min. lead terminals will be wet with solder (Except the edge of terminals).
terminal strength pulling test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

**TEST CONDITION**

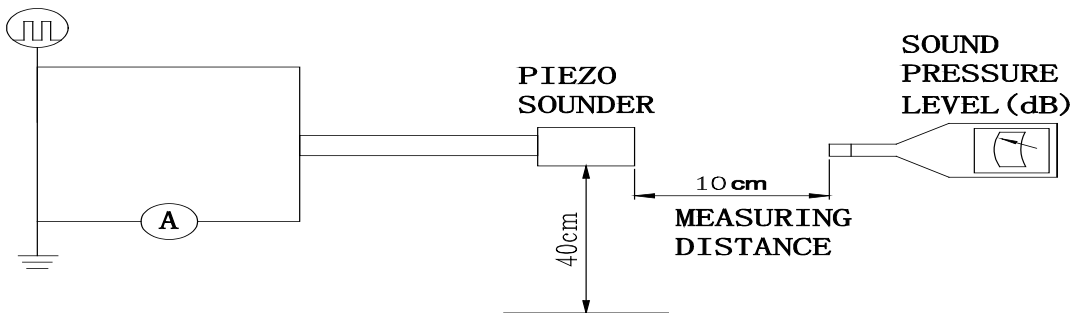
Standard Test Condition: a) Temperature :  $+5 \sim +35^\circ\text{C}$     b) Humidity : 45 ~ 85%    c) Pressure : 860 ~ 1060mbar

**TESTING METHOD**

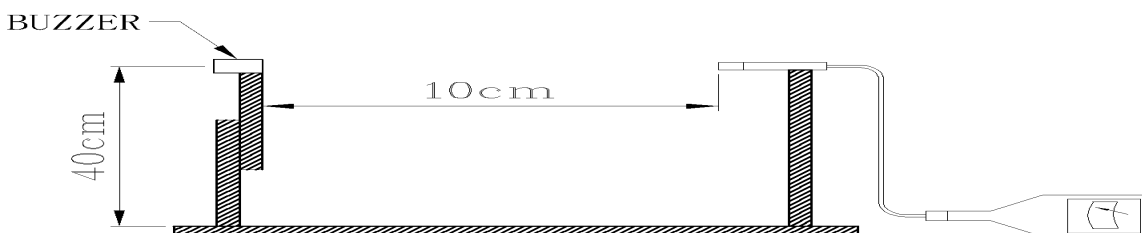
Standard Measurement conditions : Temperature:  $25 \pm 2^\circ\text{C}$     Humidity: 45 ~ 65%

**ACOUSTIC CHARACTERISTICS:**

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below:



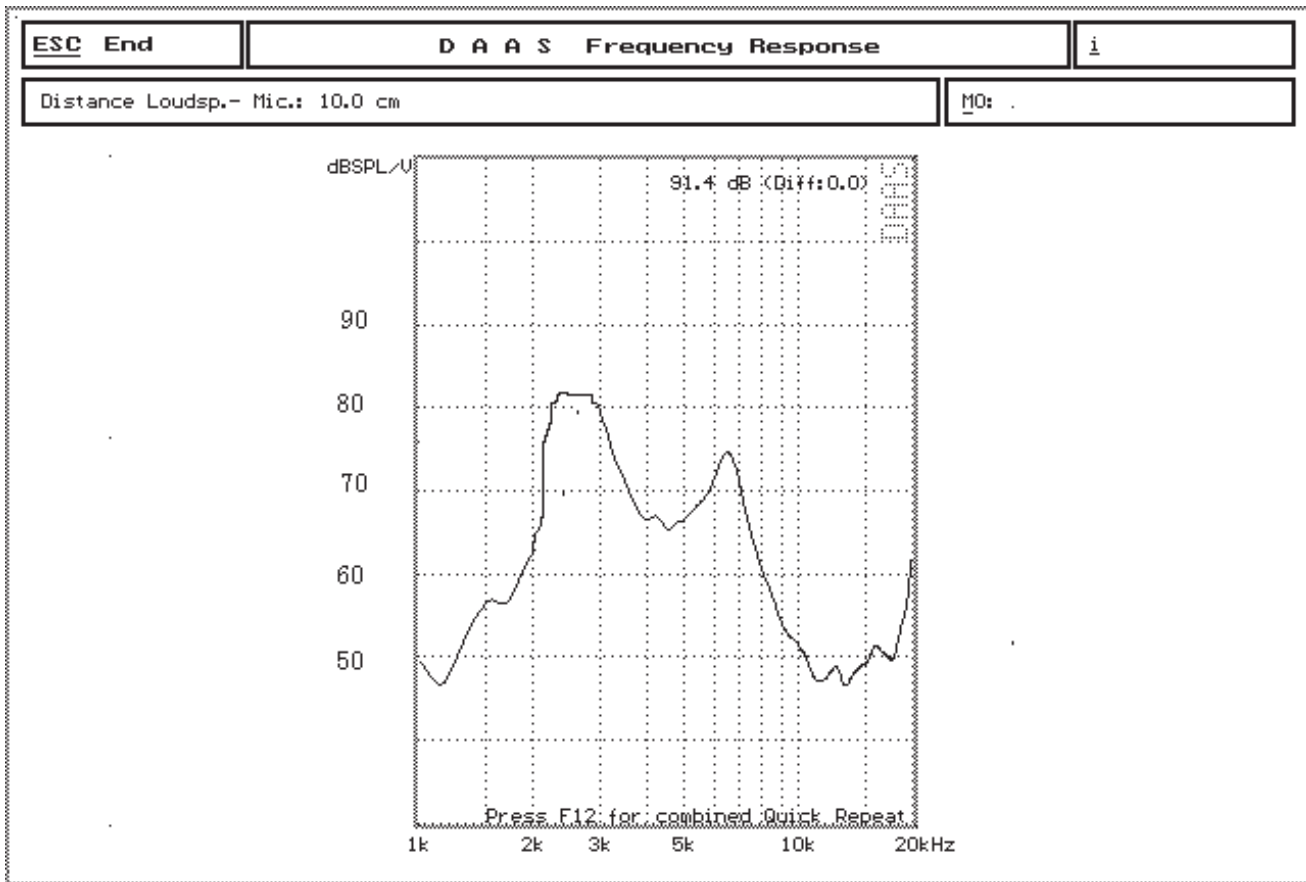
In the measuring test, buzzer is placed as follows:





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### TYPICAL FREQUENCY RESPONSE CURVE

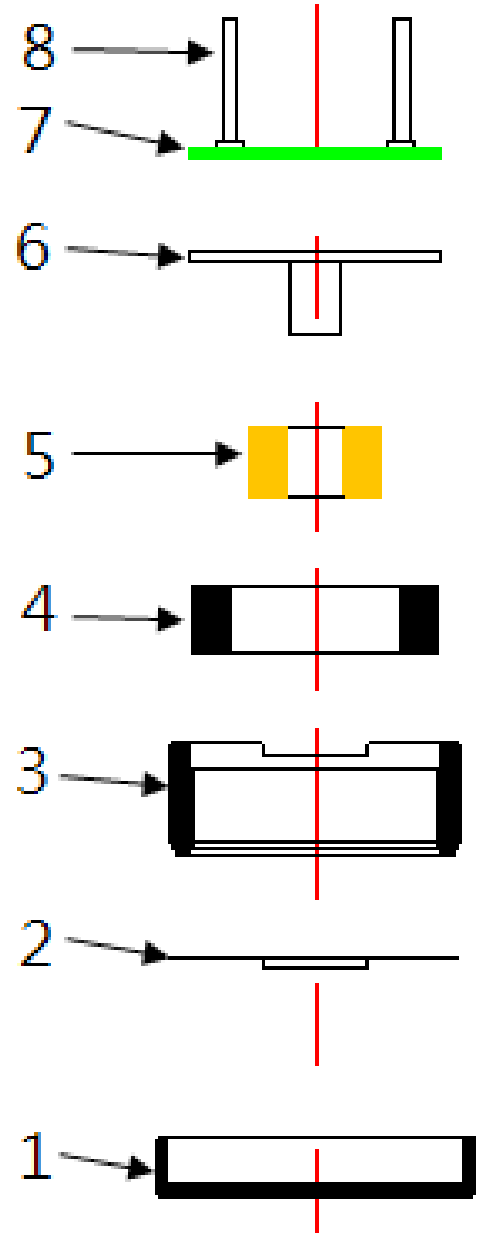
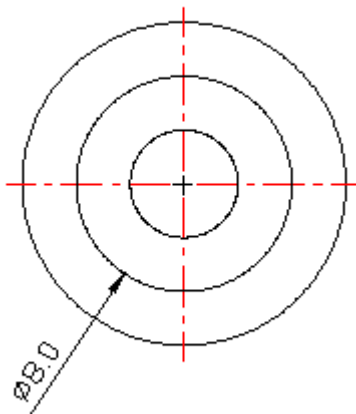
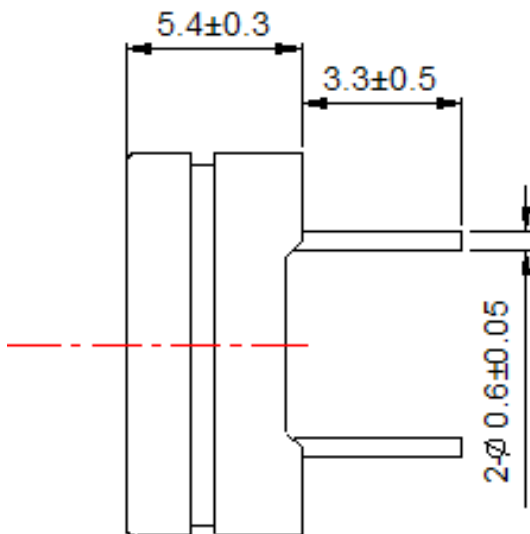
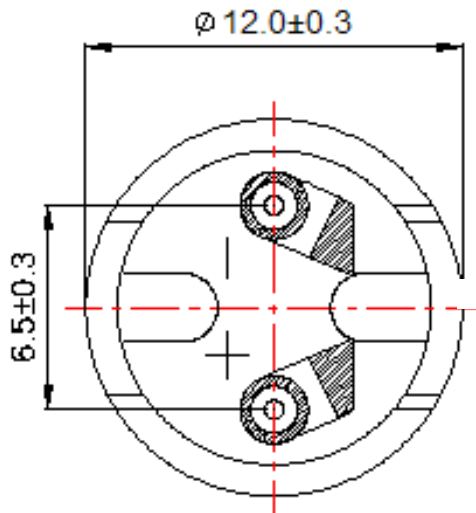




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**DIMENSIONS**

Tolerance: ±0.5 (unit: mm)

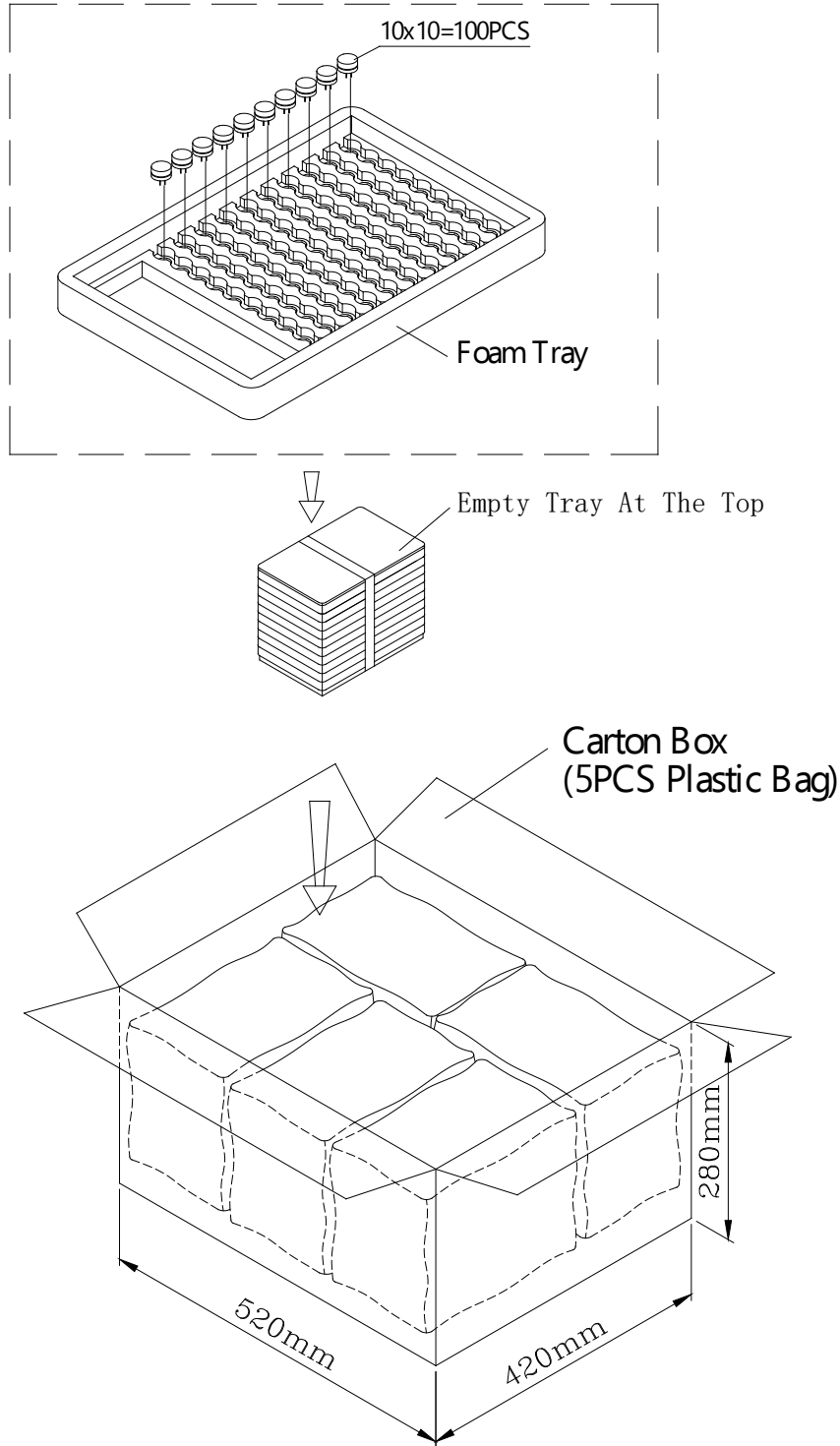


no	components	material	quantity
1	Cover	PPO	1
2	Diaphragm	Iron	1
3	Base	PPO	1
4	Magnet	NdFeB	1
5	Coil	Copper	1
6	Core	Iron	1
7	PCB	Epoxy glass fiber cloth + copper	1
8	PIN	Copper	2



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**PACKING**



Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520mmx420mmx280mm	5x1000PCS=5,000PCS