



**GAIA TECH**

## Data Sheet

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Customer:

Part No:

Sample No:

Description:

Item No:

_____
GT-1205GP
_____
BUZZER
_____
_____

Customer			
Check	Inspection	Approval	Date



General specification

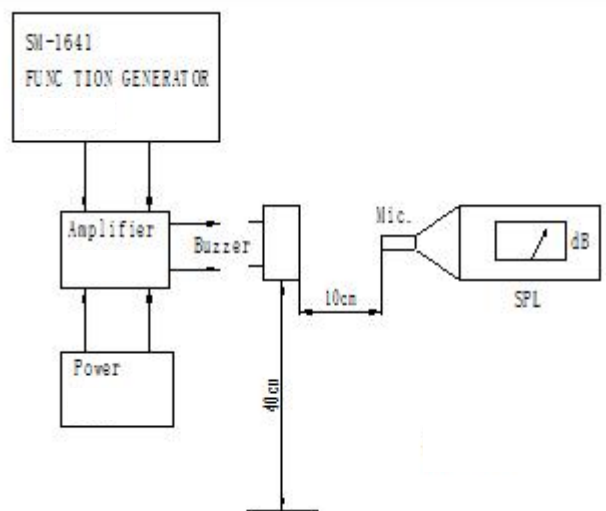
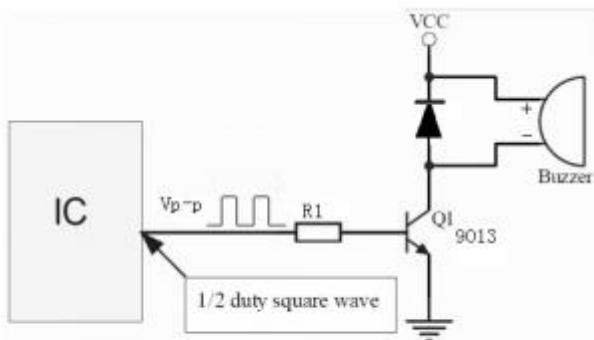
Item		Spec	Condition
1	Rated voltage	5VDC	
2	Operation voltage	3~8VDC	
3	Sound Pressure Level=SPL	Min 85dB	Standard State, Standard Drive Circuit. Rated voltage, Distance at 0.1m
4	Average consumption current	≤50mA	
5	Oscillation frequency	2400Hz	
6	Direct current resistance	42 ± 4 Ω	
6	Response time	Max 50mS	Lowest operation voltage
7	Range of operation temperature	-30~+70°C	
8	Range of preservation temperature	-40~+85°C	
10	Externals size	Φ12x9.5	Refer to the attached drawing
11	Mass	2g	

Electrical And Acoustical Measuring Condition

Recommended Driving Circuit Resonant

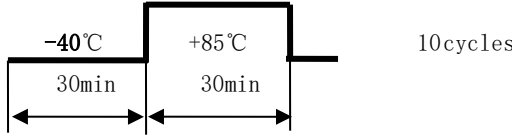
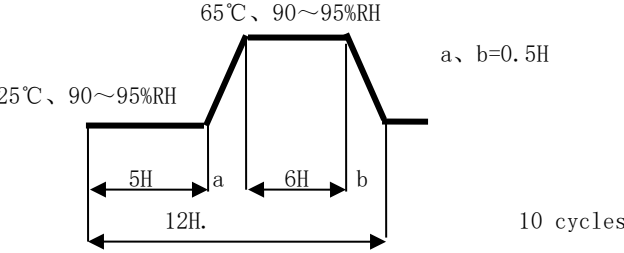
frequency, 1/2 duty cycle. Square wave. Signal amplitude should be large enough to saturate the transistor.

Recommended Setting





Reliability specification

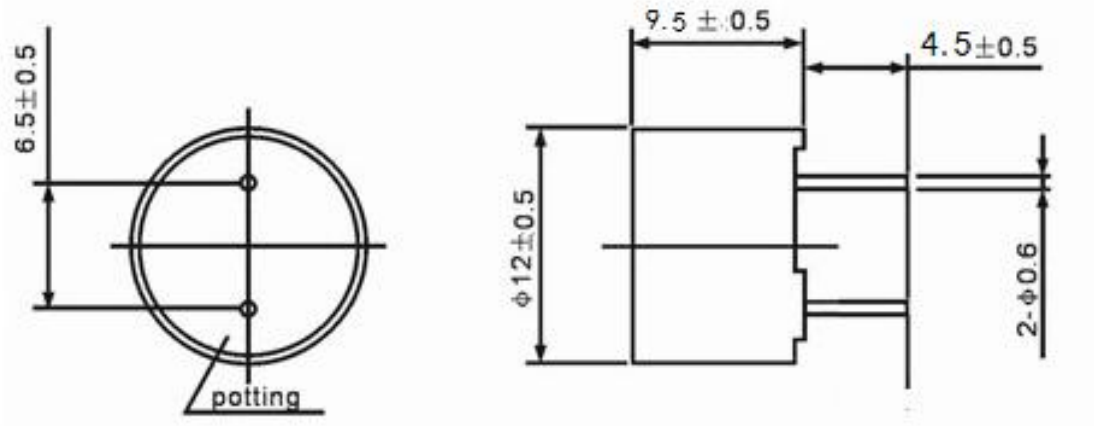
Item	Test condition	Criteria	Reference specifications
1	High temperature Preservation Exposure to +85°C for 96 hrs.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 80 dB more. (at 2400±400 Hz)	GB/T 2423.2
2	Low temperature preservation Exposure to -40°C for 96 hrs.		GB/T 2423.1
3	Thermal Shock 		GB/T 2423.4
4	Thermal, Humidity Shock 		
5	Ordinary Temp. Life Driving the sounder at 5VDC for 1000hrs in the room temperature (25°C ± 10°C)		
6	High Temp. Life Driving the sounder at 5VDC for 500hrs in the low temperature (+85°C)		
7	Low Temp. Life Driving the sounder at 5VDC for 500hrs in the low temperature (-40°C)		
8	Lead strength Pull load on the direction of the terminal axis for 10±1 sec.		GB/T 2423.29
9	Vibration 10~55~10Hz Sinewave, Sweep 1 min, Amplitude 1.52mm Max 91m/S <sup>2</sup> X, Y, Z 3 Direction 2hrs each, Total 6hrs		GB/T 2423.10
10	Free drop Free drop, 70cm height, on wood board (t40mm) X, Y, Z 3 Direction 1 time each, total 3 times.	Exclude bending of Pin	GB/T 2423.8
11	Solder heat resistance Soldering into solder bath: Solder Temp. 250±5°C Soaking Time: 3±0.2 sec	After the test the part shall meet specifications without any degradation in appearance and performance	GB/T 2423.28
12	Washability Solvent: deionized water, Solvent temp: 55±5°C Soaking time: 5±0.5 minutes		
13	Solderability Pretreatment: 40°C, 90~95%RH*240hrs Soldering into solder bath: Solder Temp. 360±5°C Soaking Time: 2±0.5 sec	95% surface of lead pins must be covered with fresh solder and no soldering holes should be found	GB/T 2423.28



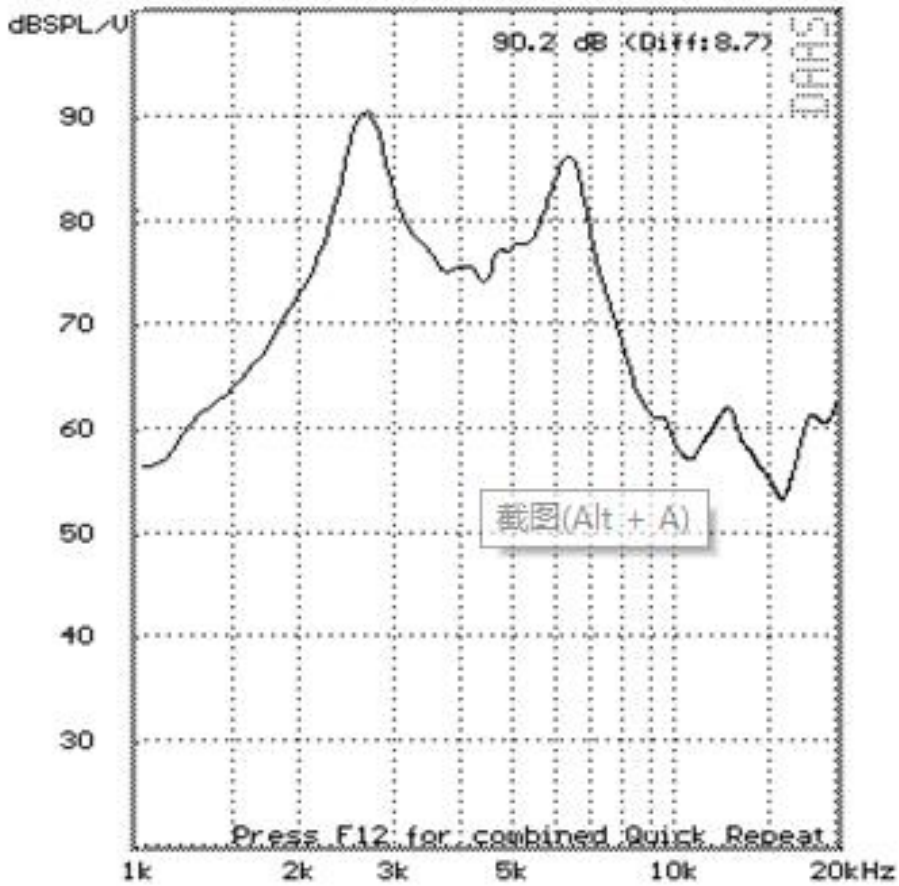
Dimension

(UNT: mm)

Tolerance:  $\pm 0.5\text{mm}$  Except Specified

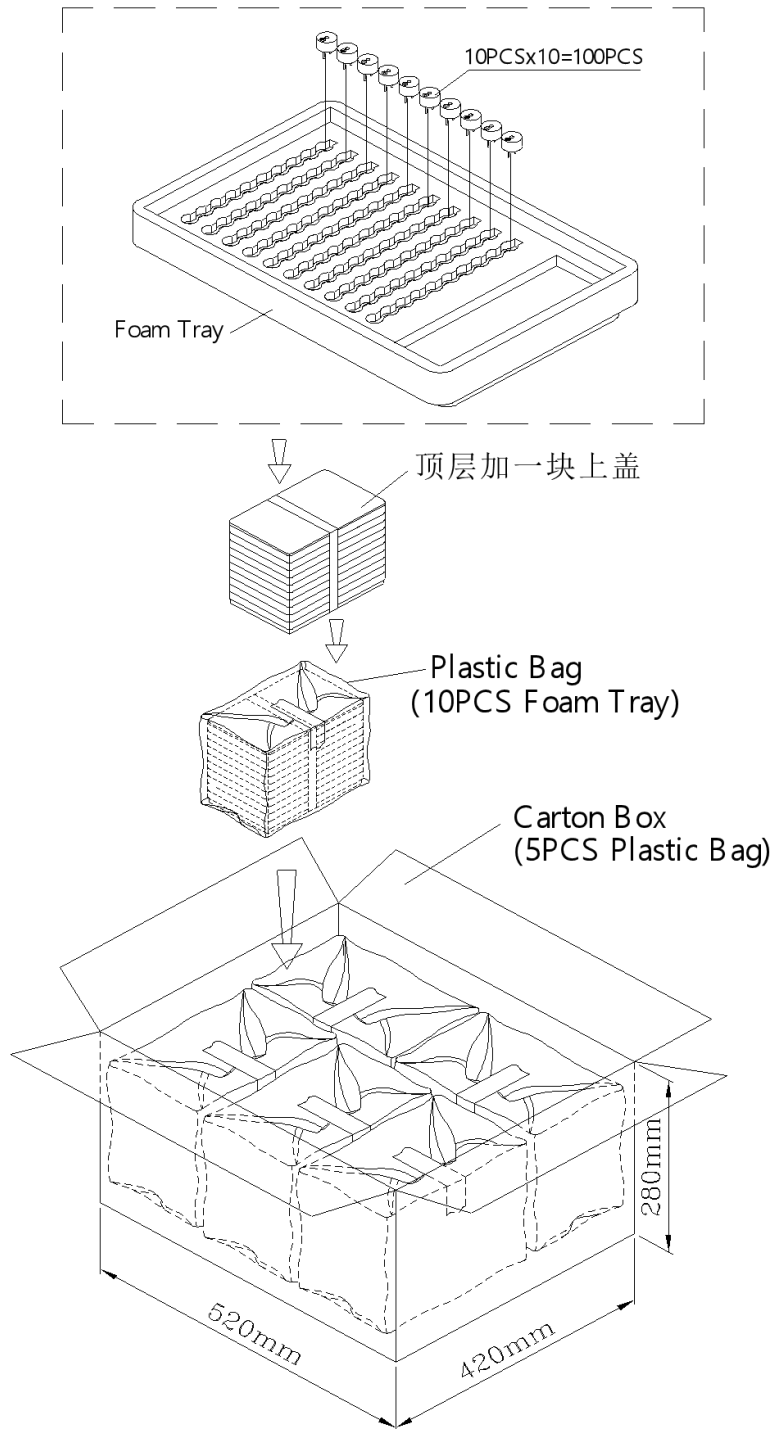


Frequency Curve





Packing Method



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