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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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

SPECIFICATION
FOR
APPROVAL

Customer：

Description : BUZZER Date : 2007-11-20

Model No. : GT - 0915RP2

Customer Model No. : _____

Drawing No.: _____

Approval No. : _____

Date of Approval	/ / /
Authorization Signature	

211 North First Street
Minneapolis, MN. 55401
612-849-6205
info@soberton.com

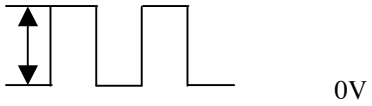
A:SCOPE

This specification applies magnetic buzzer, GT - 0915RP2

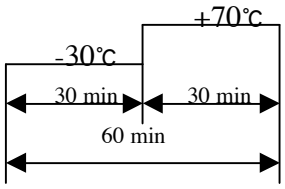
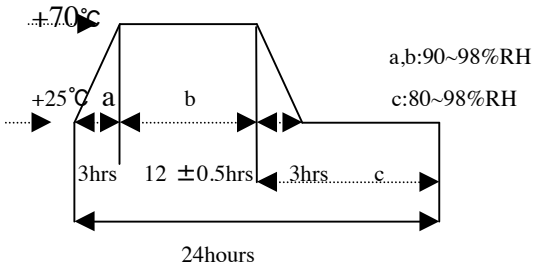
(GT - 0915RP2)

B:SPECIFICATION

Test condition: TEMP=+25±2 ℃ Related humidity=65 ± 5% Airpressure:860 1060mbar

NO.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	1.5	Vo-p  0V
2	Operating Volt	Vo-p	1.0-2.0	
3	Mean Current	mA	Max.80	Applying rated voltage 2730HZ square wave 1/2 duty
4	Coil Resistance	Ω	6±Ⅱ	
5	Sound Output	dBA	85/10cm	Distance at 10cm(A-weight free air), Applying rated voltage 2730HZ,square wave,1/2duty
6	Rated Frequency	Hz	2730	
7	Operating Temp	℃	-20-+60	
8	Storage Temp	℃	-30-+70	
9	Dimension	mm	ϕ9.0×H4.0	See attached drawing.
10	Weight	gram	0.6	
11	Material		PPO(Black)	
12	Terminal		Pin type (Plating Au)	See attached drawing
13	Storage life	month	6	6 months preservation at room temp(25±3℃),Humidity40%
14	Environmental Protection Regulation		RoHS	

C:ENVIRONMENT TEST

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +70℃ for 96 hours.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25℃,The SPL shall be 80dBA or more.
2	Low temp. test	After being placed in a chamber at -30℃ for 96 hours.	
3	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of;  	
4	Temp./Humidity Cycle	The part shall be subjected to 10 cycle shall be 24 hours and consist of;  	

D:RELIABILITY TEST

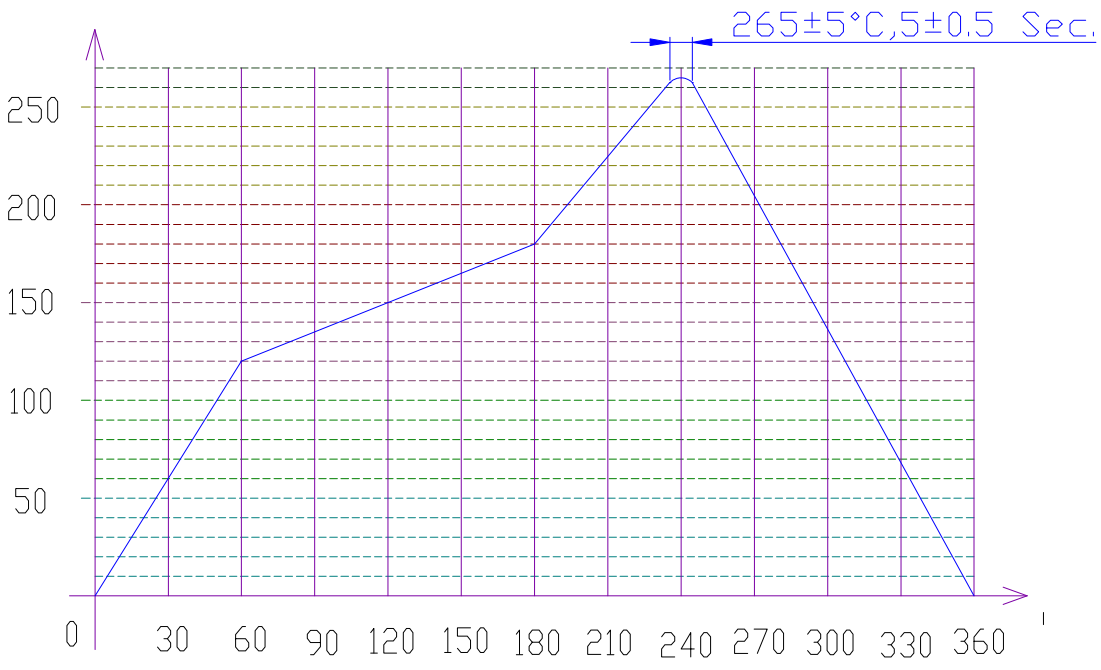
No.	Item	Test condition	Evaluation standard
1	Operating life test	1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (+25±10℃) 2. High temperature The part shall be subjected to 500 hours at +60℃ with 1.5V,2730HZ applied. 3. Low temperature The part shall be subjected to 500 hours at -20℃ with 1.5V,2730HZ applied.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25℃,The SPL shall be 80 dBA or more.

TEST CONDITION.

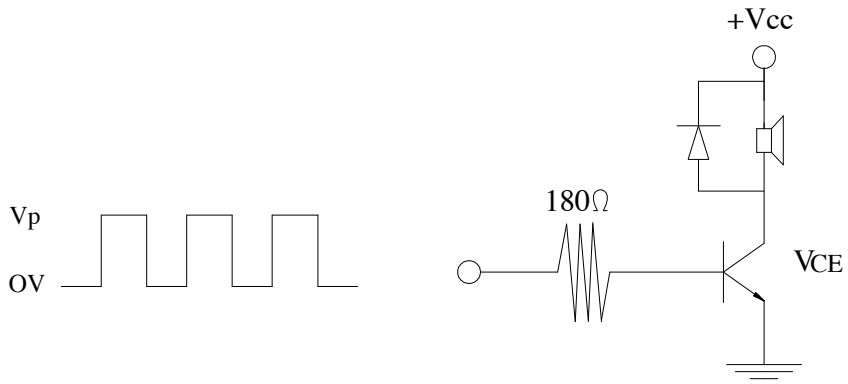
Standard Test Condition : a)Temperature: +5~+35℃ b)Humidity:45~85% c)Pressure: 860~1060mbar

Judgment Test Condition: a)Temperature:+25±2 ℃ b)Humidity:60~70% c)Pressure: 860~1060mbar

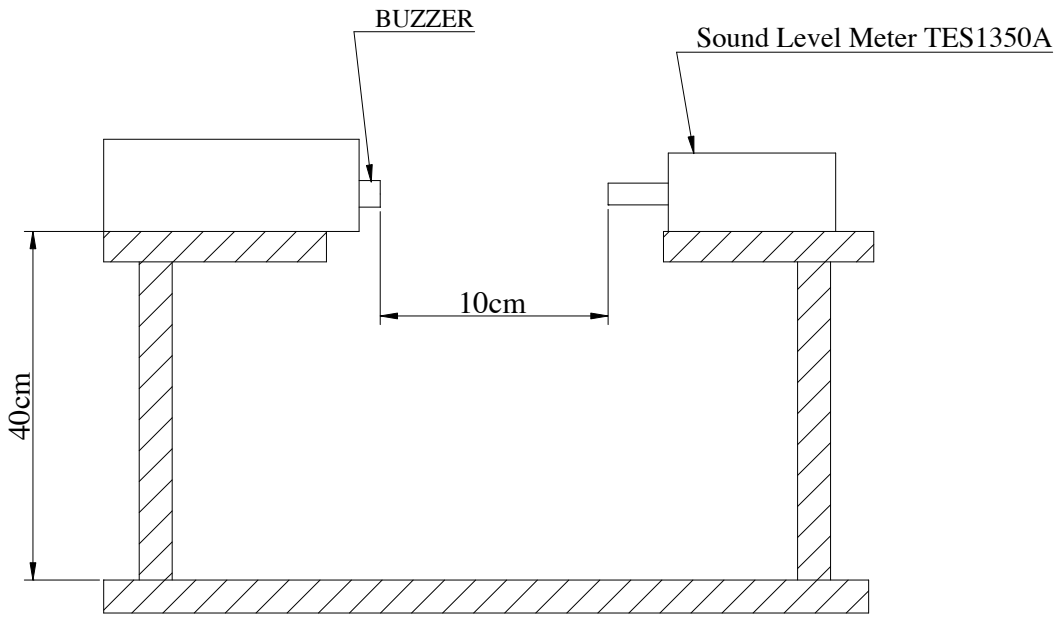
E:MECHANICAL CHARACTERISTICS			4/7
No	Item	Test condition	Evaluation standard
1	Solderability	Lead terminal are immersed in rosin for 5seconds and then immersed in Solder bath of +250±5℃ for 3 ± 0.5 second	90% min. lead terminals shall be wet with solder
2	Soldering Heat Resistance	Lead terminal are immersed in soldering bath of +250±5℃ for2±0.5 Second.	No interference in operation
3	Terminal Mechanical Strength	Apply the terminal with 1KG strength for 1 minute	No damage and cutting off
4	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3G).The vibration test shall consist of 2 hours per axis in each three axes(X,Y,Z),Total 6 hours.	After the test the part shall meet specifications without any damage in appearance and performance except SPL. SPL shall be 80dBA or more.
5	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z),(a total of 9 times).	



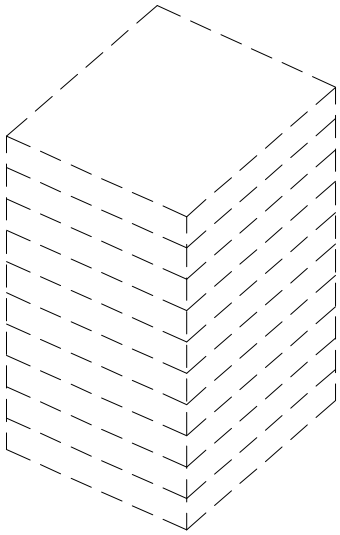
F : MEASUREMENT METHOD

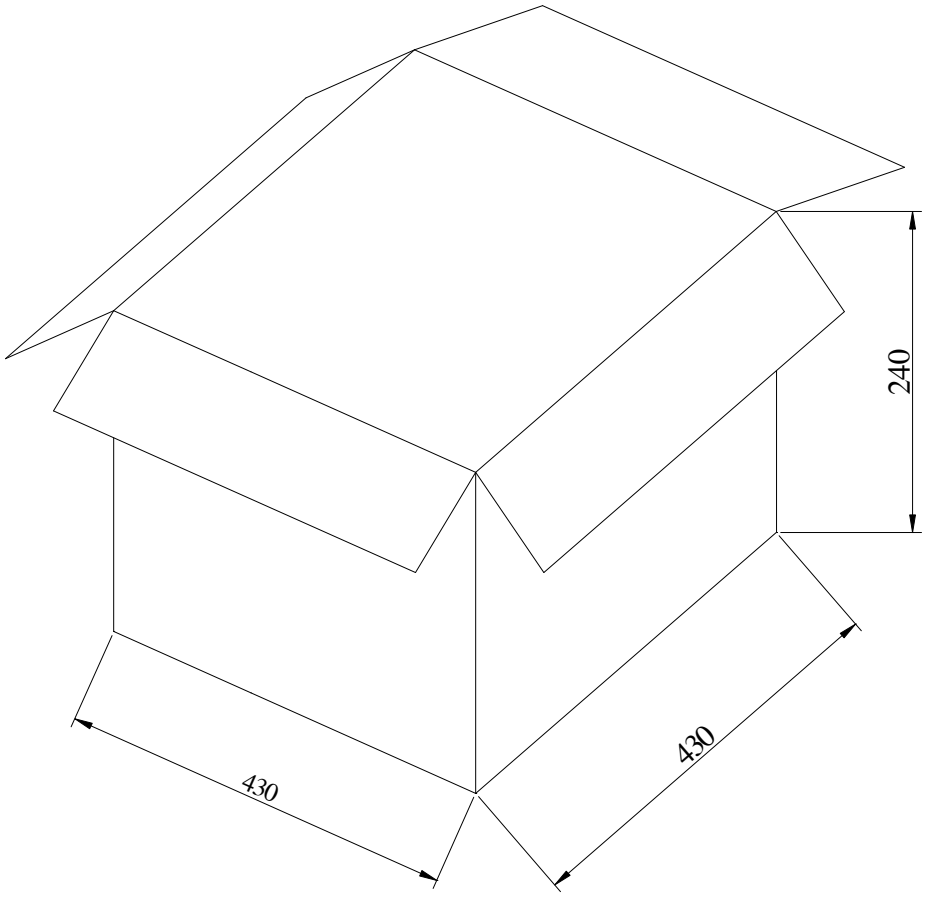


G : INSPECTION FIXTURE



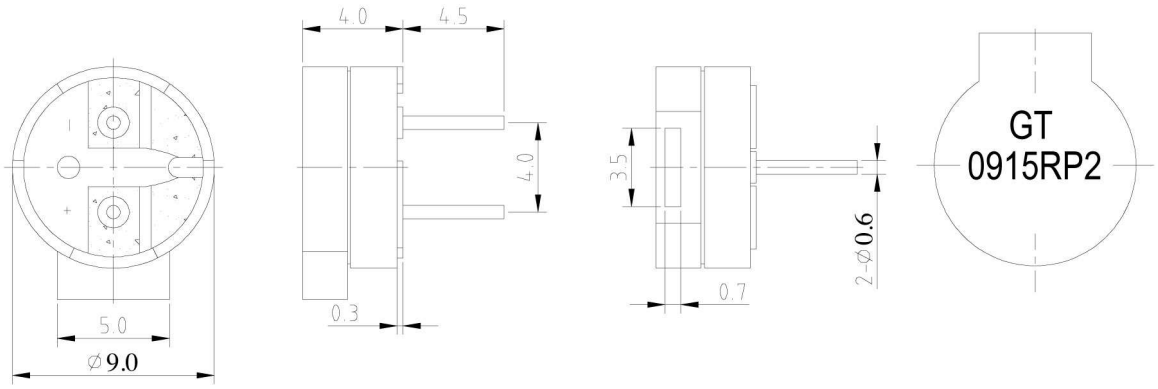
H:





	(mm)	
	190 ×190× 25	100
	200×200×200	1000
	430×430× 240	4000

H. DIMENSIONS



Tolerance:± 0.5 Unit:mm