DIGISOUND®

F/HCW06 LF

Electrical and Acoustical Parameter

Rated voltage (VDC)	6.0
Operating voltage (VDC)	4.0 – 8.0
Rated current (mA/max.) *	30
Sound pressure level (dBA/10cm/min.) *	90
Resonant Frequency (Hz/±300)	2200
Remark:	*Applying rated voltage

Mechanical, Environmental Parameter

Contact / Wire	Pin
Operating temperature (°C)	-20 to +70
Storage temperature (°C)	-30 to +80
Material housing	PPO
Color housing	Black
Component weight (g)	3.0
Remark:	

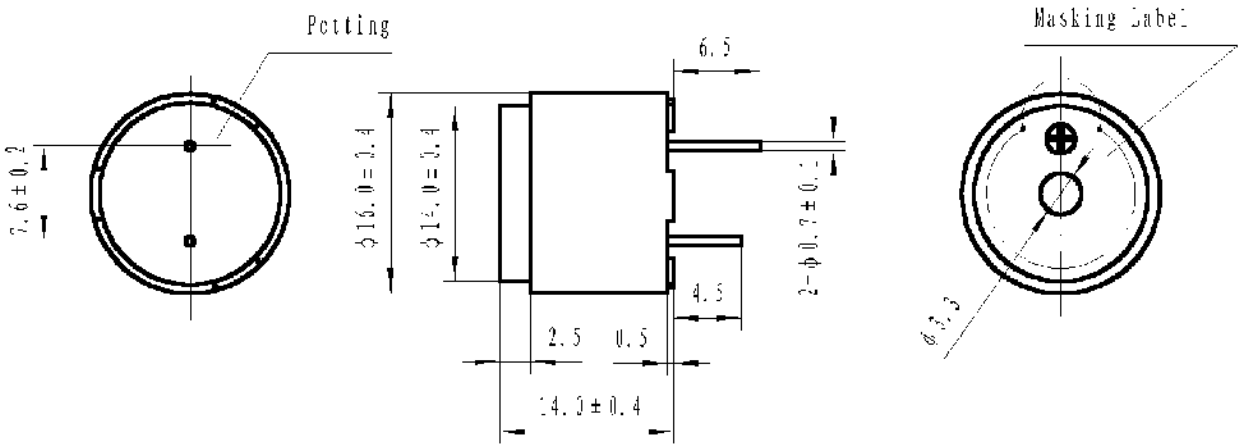
Approval

RoHs ☑

UL ☐

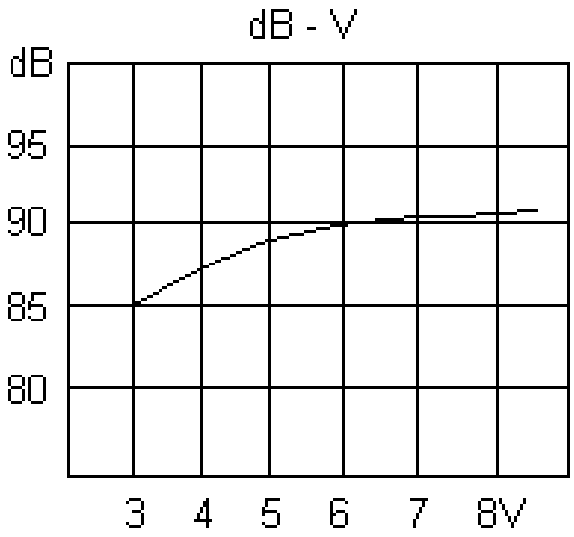
Drawing of Component

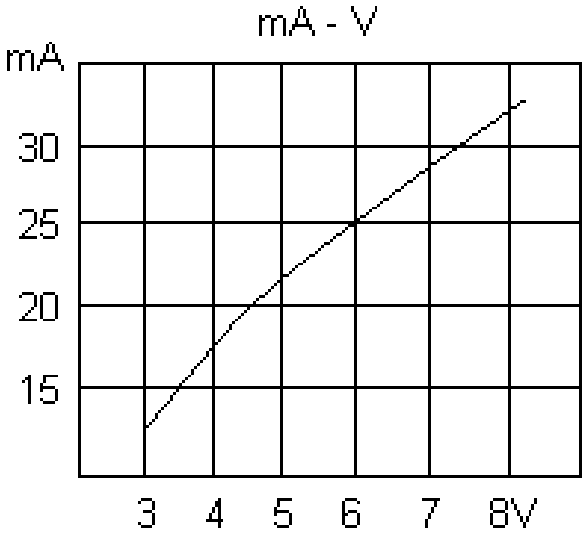
Unit:mm



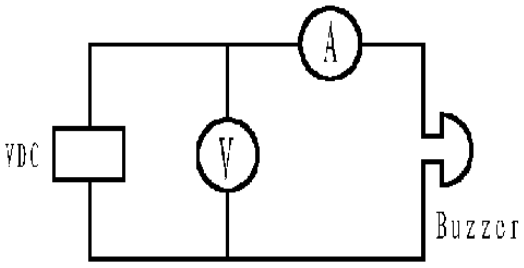
Designed by	KH	05.01.2012	Dimensions without tolerance ±0.5mm	Index: 00	Current date
Released by	BB	05.01.2012	Drawing number		05.01.2012
Changed by			120105.1PDB		Page 1 of 5

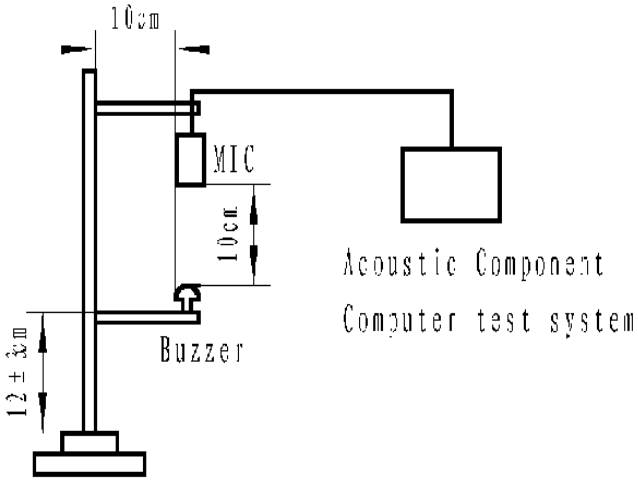
Input Voltage VS. Sound Pressure Level & Current Consumption





Test method





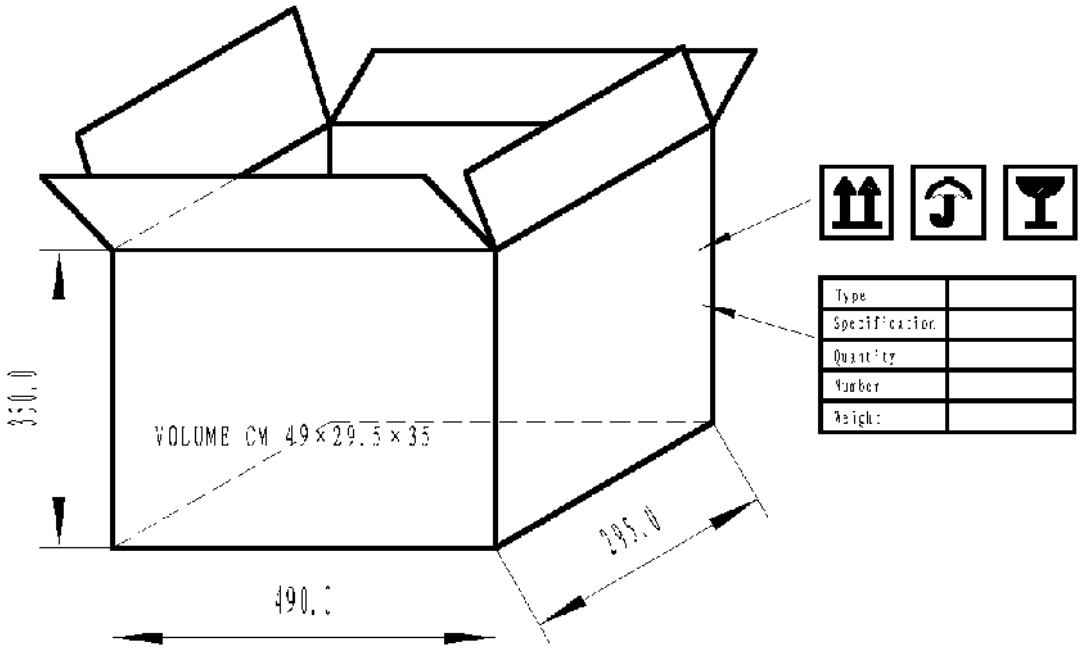
Reliability test

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	Humidity	40±5℃, 93(+2/-3)%RH, 96HRS	Sound pressure level initial value±10dB Max. current value±10%mA Oscillating frequency value±300Hz.
2	High temp.	+75±2℃, 96HRS	
3	Low temp.	-30±2℃, 96HRS	
4	Temperature Cycling	-30±2℃, 30minutes room temp. 15 minutes +75±2℃, 30 minutes room temp. 15 minutes 5 cycles	
5	Drop test	3 times from height of 70cm onto the surface of 10mm thick wooden board.	
6	Vibration test	Make the test for the directions of X Y and Z (total 0.5 hours). To-and-fro. sweep time (from 10 to 55 Hz and then from 55 to 10Hz) under single amplitude of 1.0mm is 1 minute.	
7	Solder heat resistance	The part leads (pins) shall be immersed in molten solder maintained at 250±10℃ for a period of 30 seconds.	After the test part shall meet specifications without any degradation in appearance and performance.

Recommended Temp. Profile for Reflow Oven (Fig.1)

n.a.

Packaging Information



NOTES:

1. 50 PCS per box
2. Total 40 boxes per carton
3. Total 2000 PCS carton
4. Volume: 49×29.5×35cm

Revision Table

Index Nr.	Date Reason - Procedure Change description	Drawing Date	implementation LS-Nr.: Date	Comments