SPECIFICATION

client/Customer	
Customer Model/User'sModelNo.	
Our company's model number/Part No.	HSD-1206W05
quantity/Quantity	

If this sample is approved, please sign and return it.
Please send one back withsignature uponapprovalofsample

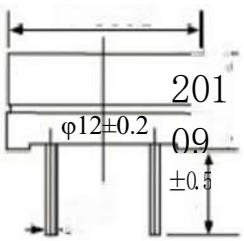
Approvedby	Checkedby	Issuedby
Wang Bin	Tang Gong	Feng Caiyi

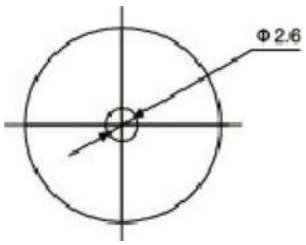
HSD-1206W05

1. Electrical Characteristics

Model Type	HSD-1206W05
Rated voltageRatedVoltageDC(V)	5
Operating voltageOperafingVoltageDC(7	3-7
Maximum currentRatedCurrent (Blood A)	Max30
DC resistance Coil resistance (32)	42±2
Output sound pressureSoundPressureLevel (dB)	Min80/10cm
resonant frequencyResonant Frequency (Hz)	2048
Operating temperatureOperating Temperature (° C)	-20℃~+70℃
MaterialMaterial	ABS

2. Dimer m)





0.6 L0

Sample test report **SampleTestReport**

HSD-1206W03

Sample NameSampleDescripfion: Buzzer

clientCustomer:

Sample quantity: 10 pes; Test quantity: 10 pes

Technical Specifications: SPL ≥ 80dB at 2048H: at 10cm/3VSine WaveOperating Voltage DC (V) = 3~5
Rated Current=30mAmCx Coil Resistance=16±20

Test dataTestDate:

NO.	SPL [aB]	Rated Current [mA]	Coil Resistance [2]	A&D	NO.	S.PL [aB]	Rated Current [mA]	Coil Resistance [2]	A&D
1.				OK	11.				OK
2.				OK	12.				OK
3.				OK	13.				OK
4.				OK	14.				OK
5.				OK	15.				OK
6.				OK	16.				OK
7.				OK	17.				OK
8.				OK	18.				OK
9.				OK	19.				OK
10.				OK	20.				OK

Test ResultsTestResult: Pass Fail (unqualified)

Inspector (Tester) [√]]*confirm*Confirzmed: Test Date: 2024/5/20

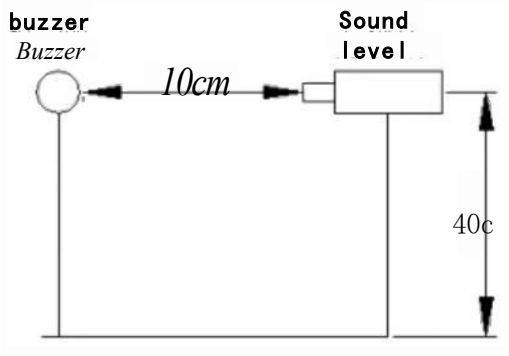
1. Product tester connection:

Connection DiagramOf Testing Apparatus:

SignalBuzzer Microphone dBMeter
Generator

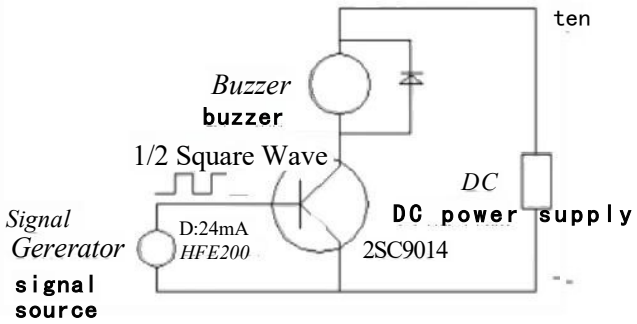
2. Product testing methods:

TestingMethod:



3. Drive circuit:

Circuit Diagram:



Reliability testingRELIABILITYTEST

Experimental Project ITEM	Test method METHODOFTEST	Standard
High temperature test Dry Heat Test	+70℃±2℃, 96h, measurement after 2 hours of recovery. After being placed in achamberwith+70±2℃for96hoursand then being placeddinnaturalconditionfor2hours,The sounder shall be measured.	All indicators were met after the test. Aii specification must be satisfied after the test.
Low temperature test Cold Test	-20℃±2℃, 96h, measurement after 2 hours of recovery. After being placed in achamber with-20±2℃for96hoursand then being placeddinnaturalconditionfor2hours,The sounder shall be measured.	All indicators were met after the test. All specifications must be satisfied after the test.
Humidity Test	Place the product in an environment with a temperature of +40℃±2℃ and a relative humidity of 90%-95% for 96 hours, and measure after 2 hours of recovery. See figureFIG.1) After being placed in achamberwith,90%-95%RH.at+40℃ ±2℃ for96hours and then being placedinnatura/conditionfor2 hours,soundershallbemeasured. (AttachedFIG.1)	All indicators were met after the test. AII specification must be satisfied after the test.
Temperature change test Temperature Cycle Test	The product was placed in a test chamber at -20℃ and another at +70℃ for 30 minutes each, constituting one temperature cycle. After undergoing five temperature cycles, the product was left to stand for 2 hours before further testing. Measurements are shown in the figure.FIG.2) After being placed in achamberat-20℃±2℃for30 minutes soundershallbeplacedatroomtemperature(+20℃).After15 minutes atthistemperature,sounder shall be placedinachamberat+70℃±2℃.After30 minutes at this temperature,sounder shall bereturnedtoroom temperature(+20℃)for 15 minutes.After5above cycles, sounder shall be measured after being placed in natural condition for 2 hours. (AttachedFIG.2)	All indicators were met after the test. AII specification mustbesatisfiedafterthetest
Vibration test Vibration Test	Frequency 10-55-10 (Hz), single amplitude: 1.5 (mm), sweep time 1 min, vibration time 30 min (see FIG. 3) Sounder shall be measured after beingapplied vibrationofamplitude of 1.5mm with10-55Hzbandofvibration frequency for30minutes.Sweeptimeislminute. (AttachedFIG.3)	All indicators were met after the test. All specifications must be satisfied after the test.
Shock Test	The object is subjected to an impact force of 100G in each of the X, Y, and Z directions, with three impacts in each direction. Soundershal be measured afterbeingappliedshock(100G)for each three mutually perpendicular directionstoeachof3 times.	All indicators were met after the test. AII specification must be satisfied after the test.
Tensile strength test of the pin Terminal Strength Pulling Test	The pin was subjected to a tensile force of 5 Newtons for 5 seconds, followed by inspection to ensure no solder joints detached or broke. The force5seconds of5Nisappliedtoeachterminal.No visibledamageandcuttingoff.	All indicators were met after the test: All specifications must be satisfied after the test.
Solderability test SolderabityTest	The soldering temperature was 255℃±5℃, and the wetting time was 3±0.5s. After the test, the wetting was visually inspected to check the surface solder wetting condition. Lead terminals areimmersedin rosin for5secondsandthenimmersedinsolder bath of+255±5℃for3±0.5seconds	All indicators were met after the test: AII specification must be satisfied after the test.

FIG.1 4090-95%RH

25℃
90-95%RH

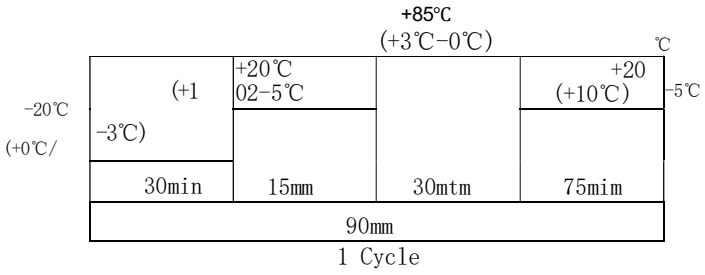
5HPs 05Hrs 6Hrs 05Hrs

1e

Place the product in an environment with a temperature of +40℃±2℃ and a relative humidity of 90%-95% for 96 hours, and measure after 2 hours of recovery (see figure). FIG. 1)

Afterbeingplacedinachamberwith,90%-95%RHat+40 ℃±2C for 96 hours and then beingplacedinnaturalconditionfor 2 hours,soundershallbemeasured(AttachedFIG.1)

FIG.2

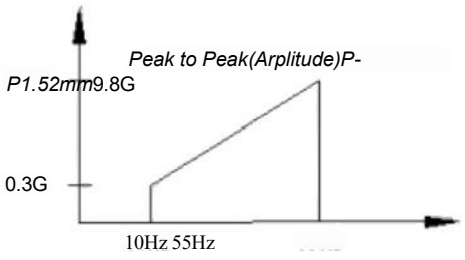


The product was placed in a test chamber at -20℃ and another at +70℃ for 30 minutes each. min,For one temperaturecycle.

The product was subjected to 5 temperature cycles and then placed for 2 hours before measurement (see figure). FIG. 2)

*Afterbeingplacedinachamberat-20 ℃±2 ℃for 30 minutes, soundershallbe Placed at room temperature (+20°C) ℃).After15 minutes at thistemperature,sounder*shall be placed in achamberat+70℃±2℃.After30 mintuesatthistemperature,*sounder shall be retumed to roomtem-perature(+20 ℃)for15 minutes.After 5abovecycles,soundershallbemeasuredafterbeingplacedinnaturalconditionfor 2 hours(AttachedFIG.2)*

FIG.3



Frequency 10-55-10(Hz),Single amplitude: 1.5(mm)Frequency sweep time 1min,Vibration time 30min

(See FIG. 3)

Soundershallbemeasuredafterbeingappliedvibrationofamplitude of1.5mmwith10-55Hz band of vibrationfrequency for 30 minutes.Sweeptimeis1minute.(Attached FIG.3)

Product packaging imagePacking

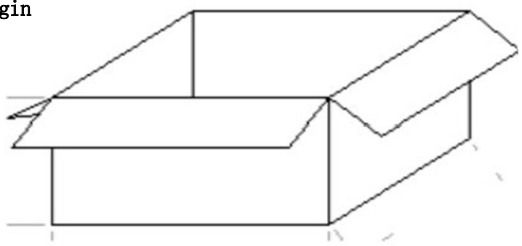
1. Foamed plastic box
FoanBox

Quantity: 100 pieces/box
Quantity: 100pes/box

2. Plastic bag
outer
packaging

Quantity: 10 boxes/milk
Quantity: 10 boxes/bar

3. Carton
packagin
g



Zheliang: 5000 chapters

Quamtity: 5000 pesfcarbon =