

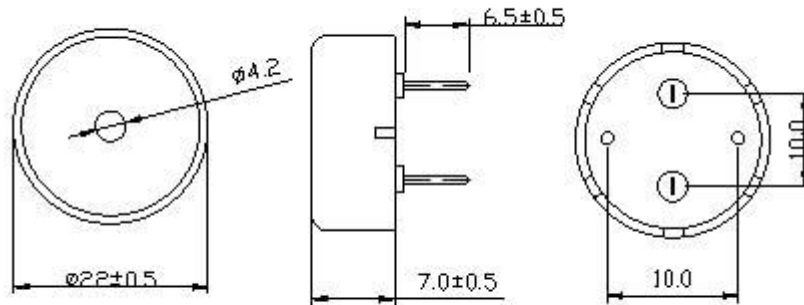
压电插针蜂鸣器规格书

型号: HSD2207

<b>Customer:</b>		<b>Part No:</b>		
<b>Product: Piezoelectric Buzzers</b>		<b>Part No: SS2220P4B</b>		
<b>Technical Terms</b>				
<b>Resonant Frequency (KHZ)</b>		<b>4.0±0.5</b>		
<b>Rated Voltage (V<sub>p-p</sub>)</b>		<b>5.0</b>		
<b>Operating Voltage (V<sub>p-p</sub>)</b>		<b>1~30</b>		
<b>Max. Current Consumption at Rated Voltage (mA)</b>		<b>2.0</b>		
<b>Capacitance at 1000Hz (Pf)</b>		<b>15000±30%</b>		
<b>Min. Sound Output at 10cm at Rated Voltage (dB)</b>		<b>95</b>		
<b>Operating Temperature (°C)</b>		<b>-20~+70</b>		
<b>Storage Temperature (°C)</b>		<b>-30~+80</b>		
<b>Housing Material</b>		<b>PBT(Black)</b>		
<b>Buzzer</b>		<b>Soldering Parameter</b>		
<b>Soldering process</b>		<b>Temp.(°C)</b>	<b>Time(Sec.)</b>	<b>Times</b>
<b>Lead Free</b>	<b>Reflow soldering</b>	<b>245±15</b>	<b>above 180°C time 40~70</b>	<b>3</b>
	<b>Wave soldering</b>	<b>260±5</b>	<b>4~8</b>	<b>2~3</b>
	<b>Manual soldering</b>	<b>350±10</b>	<b>1~3</b>	<b>2~3</b>

Remark: sushin Instance Soldering Process

APPEARANCE DRAWING Tol : ± 0.5 Unit: mm



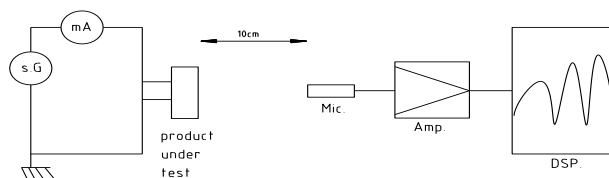
# MORE SPECIFICATIONS FOR PIEZOELECTRO TRANSDUCER

## 1、 Scope

This specification is applied to PASSIVE PIEZOELECTRO TRANSDUCER.

The products described below are used for sounder in various alarm systems.

## 2、 Measuring Circuit



Input Signal: Square Wave, 1/2 duty. S.G: Signal Generator mA: Milliammeter

Amp: Amplifier Mic.: Measuring Condenser Microphone DSP: Display Screen

Mic. + Amp. Can be replaced by a SPL meter.

2.1 Measuring Condition: Temperature:15—35℃ R.H.45—75%

2.2 Judgement Condition: Temperature:20±2℃ R.H.45—75%

## 3.Mechanical and Environment Characteristics.

No.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 85±2℃ for 96 hours and then being placed in natural condition for 2 hours.Allowable variation of SPL after test: ±10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -40±2℃ for 96 hours and then being placed in natural condition for 2 hours.Allowable variation of SPL after test: ±10dB.
3	Humidity Test	After being Placed in a chamber with 90—95% R.H. at 40±2℃for 96 hours and then being placed in natural condition for 2 hours. Allowable variation of SPL after test: ±15dB.
4	Temperature Cycle Test	After being placed in a chamber with -40±2℃ for 30 minutes, products shall be placed at room temperature(±20℃).After 15 minutes at this temperature, products shall be placed in a chamber at +85±2℃.After 30 minutes at this temperature, products shall be return to room temperature (+20℃) for15 minutes. After 5 above cycles, products shall be measured after being placed in natural condition for 4 hours. Allowable variation of SPL after test: ±15dB.
5	Drop Test	Drop on a hard wood board of 3cm thick, any directions, 3 times, at the height of 80cm. Allowable variation of SPL after test: ±10dB.
6	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: ±10DbB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +230±5℃ for 3±0.5 seconds 90% min. lead terminals shall be wet with solder(Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 2N is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.