



深圳市韩下电子有限公司
Shenzhen Hanxia Electronic Co., Ltd
Tel: 0755-23086569

承 认 书

SPECIFICATION FOR APPROVAL

产 品 编 码
Material code:

产品名称 Project:

振动传感器

规格型号 Part No:

HX 0805-C2-W8

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	黄彬	
审核/Check	张伟	
批准/Approved	罗小春	

产品规格书Product Details specification

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C2振动传感元件	HX 0805-C2-W8	A9	2024.08.08	1/4

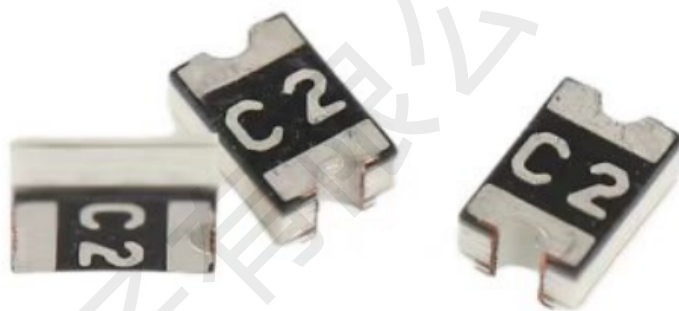
Function 功能:

- 1.Motion detecting
运动检测
- 2.Wake up function
唤醒功能

耐高温
高性能
贴片安装

Applications 应用产品:

- 1.Remote controller
遥控器
- 2.Automation equipment
自动化装置
- 3.GPS communication product
GPS通讯产品
- 4.Home appliances
家用电器
- 5.Automobile security equipment
汽车防盗设备



Features 产品特性

- 1.This product is roll ball type omni signal trigger sensing switch.

此产品为滚珠型全方位信号触发开关。

- 2.This product is a mechanical vibration sensor, the product at any azimuth angle trigger is in the ON or OFF state,When the product be shaken, the internal parts jitter, resulting in ON / OFF alternating pulse signal, thus trigger the circuit.

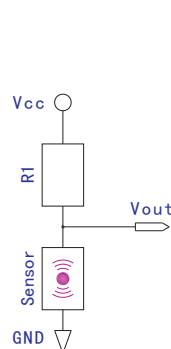
因本产品为机械式的震动传感元件，产品在任何方位角度时处于ON或者OFF的状态，当产品震动时，内部件抖动，产生ON/OFF交替的脉冲信号，从而触发电路。信号形式、触发概率见第4页。

- 3.MCU 信号处理方式:

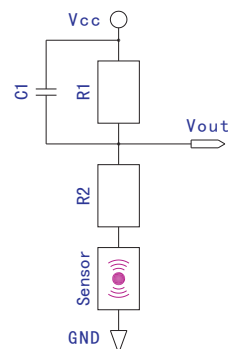
A、最灵敏方式，IO 电平变化中断处理即时响应；

B、可调灵敏度方式：计数法，计数电平变化多少次才动作响应；

C、可调灵敏度方式：计时法，如有电平变化时，延时多少时间后再次检测到有才动作响应。



基本电路



滤波电路

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Electrical characteristics电器特性

1	Voltage	电压	<6V
2	Current	电流	2uA-10mA
3	Insulation resistance	绝缘电阻	>10MΩ
4	Trigger rate	触发率	100% (振幅 > 1mm, 频率: > 20Hz)
5	Trigger frequency	触发频率	>50Hz

Note: the trigger frequency refers to the number of pulse signals generated by the product during the continuous vibration (amplitude > 1mm, frequency: 20-100hz) for 1 second. (oscilloscope reading display)

注：触发频率是指在1秒时间的持续震动（振幅>1mm，频率：20-100Hz）时，产品产生的脉冲信号数量。（示波器读取显示）

Mechanical characteristics 机械特性

1	Temperature range	耐温范围	Operating: -20℃ to 70℃
2	Pull force of terminal	端子拉力	500gf for 1 minute
3	Salt mist test	盐雾测试	95% RH, 40℃ for 24 hours
4	Service life	使用寿命	200,000 times

Bill of material 材料列表:

1	Package	封装	PCB laminate material
2	Inner contact material	连接端	Gold-plated
3	Ball	滚珠	Brass, silver/gold-plated

焊接特性Welding characteristics

1.手工焊: 330℃±10℃, <3秒.

Manual welding : 330℃ ± 10℃, <3s.

2.回流焊温度时间: 见第4页.

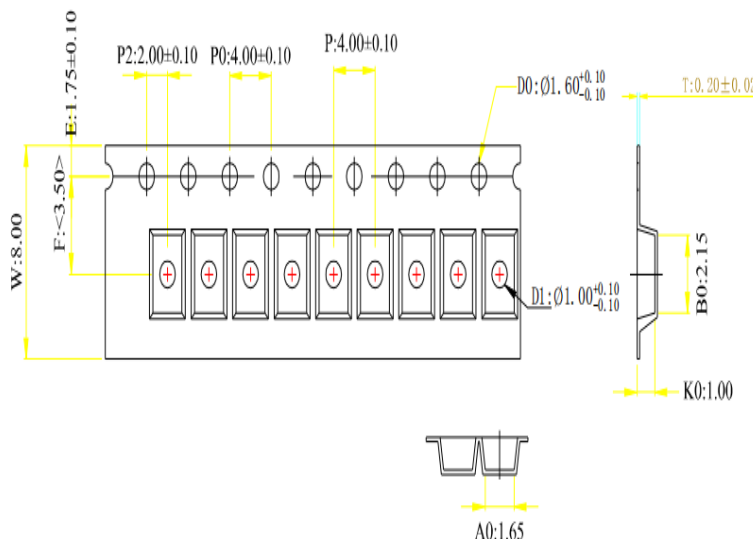
Reflow soldering humidity time:P4.

3.焊锡: 无铅.

Solder tin: lead free.

4.不可使用强酸、碱性助焊剂.

Do not use strong acid alkali flux.



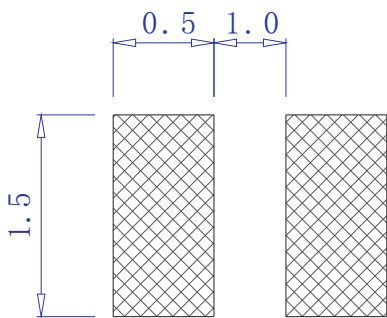
Packaging包装 2000PCS/盘

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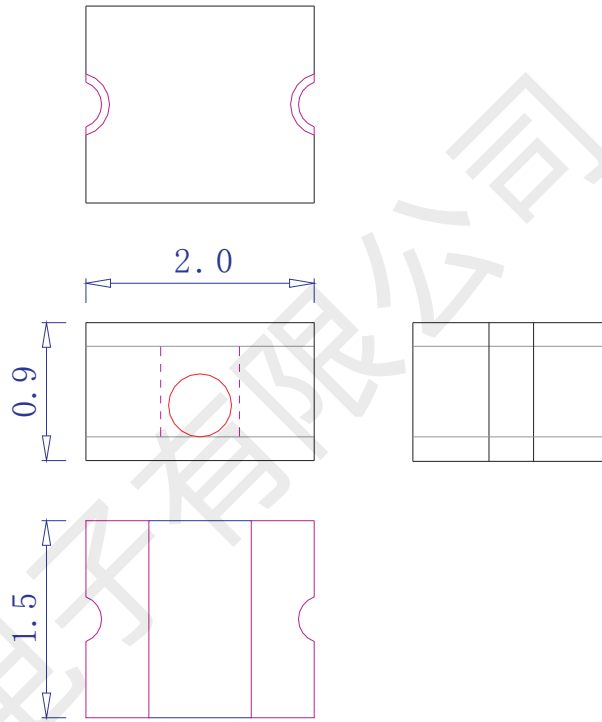
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SIZE尺寸

Unit: mm,
Tolerance ± 0.12



PCB Installation Position
PCB 焊位



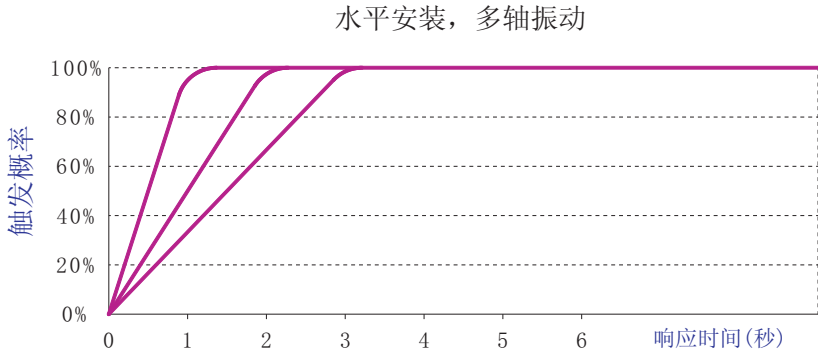
Note 注意事项

- If the product used for high security products and durability of extremely high equipment (such as life safety equipment, aviation facilities, disaster prevention device), please confirm whether a share, can seek advice our company for details.
如果该产品要用于高安全性产品及耐久性极高的设备中（如生命安全设备、航空设施、防灾装置），请确认是否合用，或咨询我司了解详情。
- In case of fire, Please do not overload applicable.
请勿超负荷使用，以防发生火灾。
- The welding temperature or time more than standard, can cause switch collapse.
焊接温度或时间超过规范时，会造成开关解体。
- Do not use water solubility flux. May cause damage to the switch.
勿使用水溶性助焊剂、可能会造成开关损坏。
- Do not use solvent wash switch.
勿使用溶剂清洗开关。
- This switch conduction rate of 98% (conductivity rate per 100 times value switchactions, can good conduction ratio).
本开关导通率为98%以上（导通率是指开关每100次动作中，可以良好导通的比率）。
- Bailing company is only responsible for the defective problems of the product itself, return and exchange the defective products, and does not bear other joint and several expenses.
百灵公司只承担本产品本身不良问题,对不良品进行退换货,不承担其它连带费用责任。

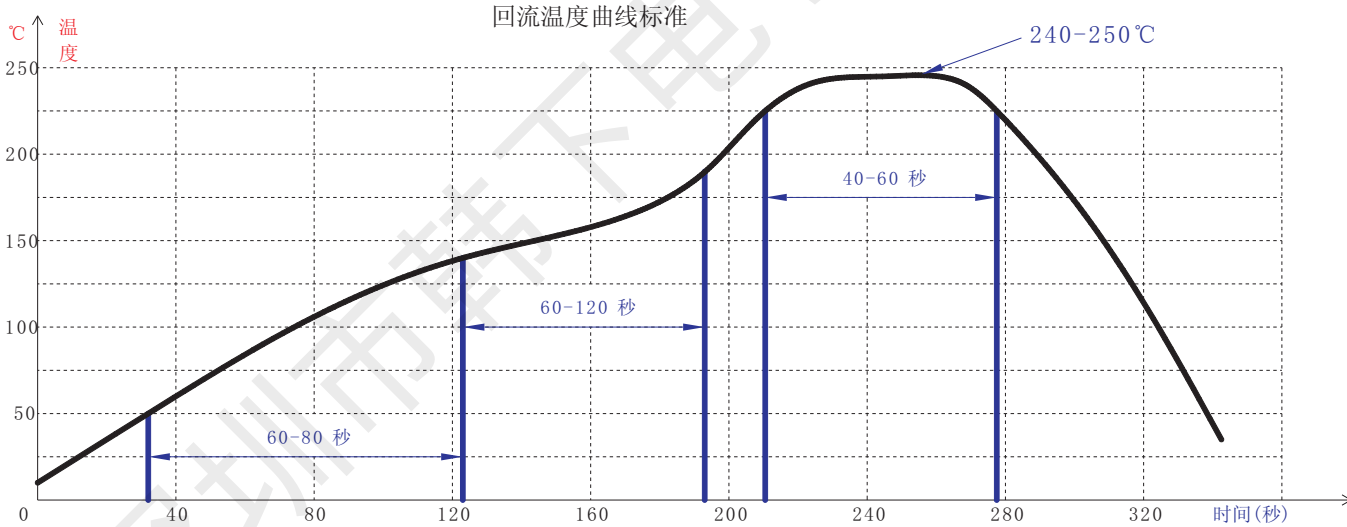
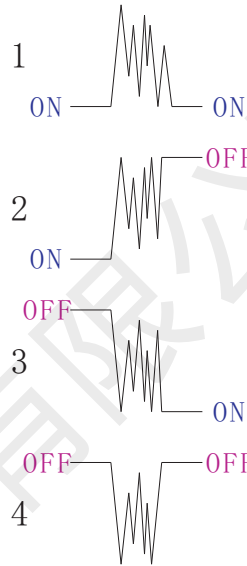
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脉冲信号形式: 4种



10-200Hz随机振动，振幅大于1mm。



管制要点

项目	温度范围(℃)	维持时间(秒)	温度斜率 (℃/秒)
预热区	50-140	60-80	< 3
恒温区	140-190	60-120	< 1
回流区	217以上	40-60	< 2
峰值温度	240-250℃		
冷却区	降温斜率 < 3℃/秒		
链速	70-85 cm/min		