ISO9001: 2015		ISO14001: 2015

APPROVAL SPECIFICATIONS

Title. DIP switch

Product Model. GDS05H-R2

Customer's Part NO.

Customer's Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: Date:

Approved by: Date:

Swiclick

Address:Rm. D1/25F,No 2070,Electronical Technology Building-C,Shennan Mid-road,Futian Dist.,Shenzhen,China.

Website:https://www.swiclick.com

变更履历表：

版本	变更记录	变更人	变 更 日 期

电器性能　ELECTRCAL SPECIFICATIONS

1．接触电阻（初始值） Contact resistance （initial）： ≤50mΩ
2．接触电阻（测试后） Contact resistance（after life test）： ≤100mΩ
3．开关容量（开关常切换） Contact rating （Contact rating）： 25mA 24VDC
4．开关容量（开关不常切换）Contact rating （Non-Contact rating）： 100mA
5．绝缘电阻 Insulation resistance： ≥100MΩ.Min.at 500VDC
6．耐压强度 Dielectric strength： 500VAC Min. for 60 seconds.1mA
7．极际电容 Capacitance between adjacent switches： ≤5PF

机械特性　MECHANICAL SPECIFICATIONS

1．操作力 Operation force： ≤10N
2．机械寿命 Mechanical life： 2000 operations
3．使用温度 Operating Temperature： -25℃ ～ +85℃
4．储存温度 Storage Temperature： -40℃ ～ +85℃
5．可焊性 Solderability： After flux 230±5℃for 5±0.5seconds,95%coverage
6．耐焊接热 Resistance to soldering heat ： 260±5℃ for 5±1seconds

材料　MATERIALS

上盖：工程塑料，红色、蓝色、黑色
底座：工程塑料，黑色
拨键：工程塑料，白色
端子：铜合金，镀金或者镀银
COVER:Engineering Plastics,Red、Blue、Black
BASE: Engineering Plastics, Black
KEY: Engineering Plastics,White
TMERMINAL:Alloy Coper,Plating Gold or Ag

焊接 SOLDERING PROCESSES

1．在所有操作过程中，请确保开关在 OFF 1.Keep all switch contacts in their “OFF”
位置 position for all operations
2．波焊：（DIP 型）推荐焊接焊锡温度为 2.WAVE SOLDERING:Recommended solder
260℃，最多 5 秒 temperatureat 260℃ max.5 seconds
3．手焊：使用 30W 烙铁控制温度在 350℃， 3.HAND SOLDERING:Use a soldering iron of 30 solder
焊接时间大约 5 秒钟 Watts controlled at 350℃ approximately 5 seconds.While applying

存储方法 Storage method

1. 使用前确保包装完整无破损，无浸湿.
Ensure that the product without package breaking or wetting before use.

2.存储条件 Storage conditions:储存温度 Storage temperature：-5 ~ 35 ℃；
储存湿度 Storage humidity：25% ~80%；

未开封状态：6 个月内使用完毕（从发货日开始计算）； 超过 6 个月后再使用的，使用前请先验证：端脚无氧化、无发黑、塑料件无吸湿起泡，确保焊接的适宜性；

Unopened status: Use up the product as soon as possible before 6 months. (calculated from shipment date).Over 6 months, please make sure below ;

before use it: terminal without oxidation or blackening, plastic parts without moisture absorption or bubble, ensure solderability.

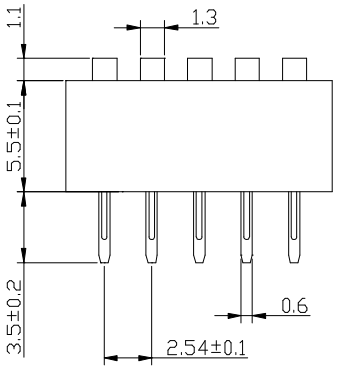
已开封状态：1 个月内使用完毕； Opened status: use up within 1 month;

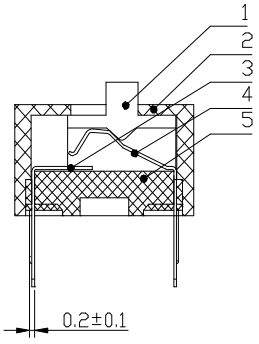
储存注意事项：避开高湿高温和有腐蚀性气体的环境及阳光直射；

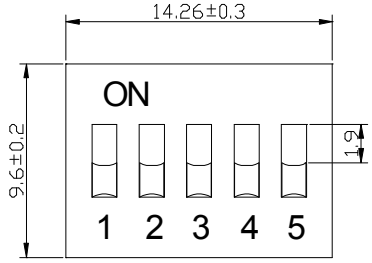
Storage precautions: Please avoid the following environment: with high humidity, high temperature , corrosive gases and direct sunlight.

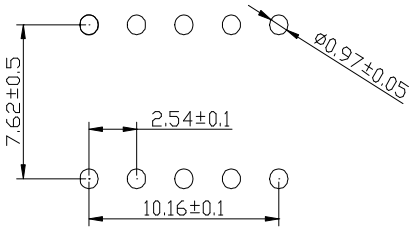
3.请勿超重叠放. Do not stack too many switches.

标记	处数	变更内容	变更人	日期

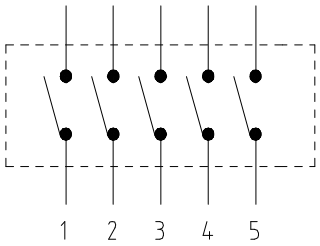








PCB layout



Circuit diagram

开关特性technical requirements:

1、开关容量Switching capacity:25mA at 24VDC;
2、绝缘电阻Insulation resistance:100MΩ at 500VDC;
3、接触电阻Contact resistance:100mΩ max ;
4、绝缘强度Voltage resistance:500VAC /1min ;
5、操作力Operating force:1000gf max;
6、电气寿命Electrical life:2000次;
7、使用温度Use temperature:-25℃ to 85℃ (无结冰No ice.);
8、焊接要求Welding requirements:
手工焊接Manual welding: 350℃不超过5秒 350℃ for no more than 5 seconds; (30瓦烙铁Max30W soldering iron Max);
波峰焊Wave soldering: 260℃不超过5秒，在焊接和清洁过程中开关处于断开状态260℃ for no more than 5 seconds, and the switch is off during welding and cleaning;
9、开关出厂处于断开状态The switch is off at the factory。

NO.	NAME	MATERIA	QTY	REMARK
5	底座 Base	PBT	1	Black
4	动触片 Moving contact	Phosphor copper	5	Gold Plating
3	静触片 Static contact	Phosphor copper	5	Gold Plating
2	盖板 Cover	PBT	1	Red
1	手柄 Stem	PBT	5	White

制作		日期		未注公差		材质		版本	A/00	Swiclick
				10 ~	±0.4			比例	1:1	成品名称 Dip Switch
审核		日期		5 ~ 10	±0.3	单位	mm	页码	1 OF 1	成品型号 GDS05H-R2
				1 ~ 5	±0.2					
批准		日期		~ 1	±0.1	视图		纸张	A4	图 号
				角度	±3°					