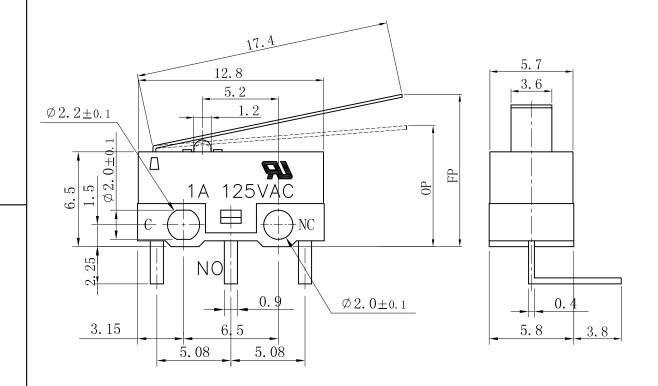
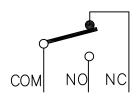
SWEETA PRODUCTS CORPORATION ROHS								
类 型	接微动开关	品名	品 名 SDM1-03D-30-3					
1. 功能规格								
1.1规格值			1.5自由位置(FP)		11.0±1.0mm			
		125VAC 1A/DC5V 30mA	1.6动作位置(OP)	9.2 \pm 1.0mm			
1.2接触电阻(CR)		≤100mΩ	1.7行程(PT)					
1.3操作力(OF)		$30 \pm 15 \mathrm{gf}$	1.8灵敏度(BT)					
1.4回弹力(RF)			1.9					
2. 可靠度参数	Ž							
2.1机械寿命		500,000 cycles	2.5焊接工艺		手工焊			
2. 2电气寿命		10,000 cycles	2.6操作温度		-25℃~+65℃			
2.3绝缘电阻(IR)		≥ 100MΩ DC500V	2.7储存湿度		2.7储存湿度 <85%RH		<85%RH	
2.4耐压强度(WV)		AC500V 1 Minute	2.8					

3. 尺寸规格图



SCHEMATIC

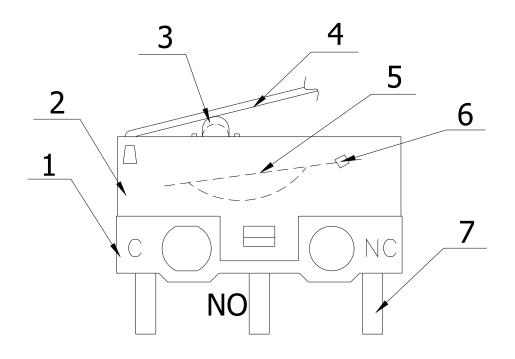


版本			日期	修订人			
文件编一	号			第Cli	反 第0次修订	一般公差	± 0.2
文件名		DMA	成品规格书			单 位	mm
拟制	游海涛	审核	邱建颖	批准	向其权	生效日期	

SERIES 系列		MICRO SWITCHES(SDM1)		Issuance date 日期:		2015	
Document No.文件编号		DIC/PE003		Edition 版本	С	Page 页码	1/5
Material list	材料清单						
NO.	NO. Part Name 品名		Q'TY 数量	Generic Class 材质		Remark 备注	
1	Base 底 座		1	PBT			
2	2 Case 盖 片		1	PBT			
3	Button 按 钮		1	PBT			
4	Lever 压柄		1	SUS301			
5	Spring Plate 弹 片		1	C1720			
6	Contact 接 点		1	Silver alloy 银合金			
7	Terminal 端 子		3	C2680			

Structure chart:

结构示意图:



SERIES 系列		MICRO SWITCHES(SDM1)	Issuance date 日期:			2015				
Docume	ent No.文件编号	DIC/PE003	Edition 版本	С	Page 页码	2/5				
1、Gen	•									
1.1 Swi	1.1 Switch rating: 1A 125VAC/DC5V 30mA (规格: 1A 125VAC/DC5V 30mA)									
1.2 Operating temperature range -25℃~+65℃ (操作温度范围: -25℃~+65℃)										
1.3 Pres										
1.4 Stor										
2.Perfor	2.Performance 功能参数									
2.1 Elec	2.1 Electrical characteristics(电气特性)									
	Items 项目	Test con	nditions 测试条件			Criteria 标准				
2.1.1	Contact resistance 接触电阻	measurements shall be made to Measurement shall be made meter for 2 m Ω precision u DC5V and a current of 0.1A s 在按钮上施加两倍操作力的	Applying a static load twice the operating force to the button, measurements shall be made between the terminals. Measurement shall be made with a stabilization contact resistance meter for $2 \text{ m}\Omega$ precision under the condition which a voltage of DC5V and a current of 0.1A shall be applied between the terminals. 在按钮上施加两倍操作力的静负荷值,采用精度为 $2 \text{ m}\Omega$ 高稳定度线性毫欧表,在 DC5V,0.1A 的条件下测量端子两端接触电阻。							
2.1.2	Insulation resistance 绝缘电阻	Spec. voltage (Refer to 2.3 ite each pair of terminals and be for one minute. Measurement shall be made resistance under the conditional applied between the terminals 采用绝缘电阻测试仪,分别端子与外露的非金属零件之持续1分钟测试绝缘电阻。	Refer to individual product drawing 参考规格图纸							
2.1.3	Dielectric withstand in voltage 耐压强度	Spec. voltage (Refer to 2.4 it be applied across terminals ar 在端子两端之间加载规格电分钟.	There shall be no breakdown 无电击穿等异常.							
2.1. 4	Bounce 灵敏度	Lightly striking the center of normal use (3 to 4 operating and "OFF". 以 3-4 次/秒的频率施加正 "ON"、"OFF"之功能。	per sec.) bounce sh 常力于按钮上,持	all be te	ested at "ON"	5ms max				

SERIE	S系列		MICRO SWITCHES(SDM1)	Issuance date 日	期:		2015	
Docum	ient No.文件编号		DIC/PE003	Edition 版本	С	Page 页码	3/5	
I	tems 项目		Test conditions 测试条件 Criteria 标准					
3.Mech	nanical characteris	stics 机材	戒特性					
3. 1	Free Position 自由位置 Position of switch plunger or actuation when on external force is applied. 开关不受外力时之位置。						Refer to individual product drawing 参考规格图纸	
3. 2	Operating Position 动作位置	to ope 开关接	on of switch plunge or actuator rated position. Note that the cas 操动件受到外力后,由自由状	Refer to individual product drawing 参考规格图纸				
3. 3	Operating Force 操作力	Force the button to come to operating position shall be measured						
3. 4	Terminal Strength 端子强度	load o	g the switch such that the direc f 3kgf Max shall be applied to ion for one minute. 长于垂直状态,动作端子顶端	There shall be no sign of damage mechanically and electrically. 机械性能、电气性能无损害现象。				
3.5	Button Strength 按钮强度	vertica Of the 置开乡	g the switch such that the direct al, a static load of 3kgf Max sha button in the direction of butto 长于垂直状态,直接动作按钮 时间为 1 分钟。					
4. Sold	ering characterist	ics 焊接	性能					
4.1	Hand soldering 手工焊	approx 焊接时	soldering iron of 30 watts timately 3 seconds 1 time w 甘需在 30 瓦烙铁,控制于 350 环进行。	hile applying solde	r.	solder shal 90% of immersed. (2)There is appearance functions. (1)覆锡性 90%以上	uniform coating of I cover a minimum of the surface being hall be no defects in or in the mechanical 能达到浸入表面的现任何外观和机械功伤。	

SERIES 系列			MICRO SWITCHES(SDM1)	Issuance date 日期	期:	2	015	
Document No.文件编号			DIC/PE003	Edition 版本	С	Page 页码	4/5	
Ite	ms 项目		Test conditions 测	试条件		Criteri	a 标准	
5. Durability characteristic:耐久性能								
5.1	Mechanical life 机械寿命 Electrical life 电气寿命	(1) (2) (3) (4) (1) (2) (3)	Without loading 无负载 Operating speed: 120 cycles/m 操作频率: 120 次/分钟 Push force: maximum value of 推动力: 操作力的最大规格信 Life: 500,000 cycles 寿命: 500,000 次 Operating speed: 10 cycles/ mi 操作频率: 10 次/分钟 Push force: maximum value of 动力: 操作力的最大规格值的 which the load of 1A 125VA Life: 10,000 cycles 寿命: 10	operating force twic 直的两倍 nute operating force twic J两倍 C 负载为 1A 12	ce推	After test: (1)Insulation resist: 10M ohm Mir (2)Bounce: 5m sec (3)Withstand volta; AC500V, 1 minu (4)Operating force: 30% of initial va (5)There shall b appearance or ir functions. 试验后: (1)绝缘电阻:10 > (2)灵敏度: 5毫和 (2)灵敏度: 5毫和 (3)耐压强度: AC (4)操作力度:测证 (5) 没有出现任何上的损伤。	n. Max. ge: atte alue e no defects in the mechanical 地欧姆以上少以下500V, 1 分钟	

- 6. Special Requirements 特别要求
- 6.1 Hazardous Substance Management: Follow environmental requirements: Hazardous Substance, DIC/WI/G506. 危害物质管理: 遵循环境物质规范: 危害物质 DIC/WI/G506。
- 7. Marks explanation 标志说明
- 7.1 There should be Model No. marks. 每个产品上应有标识字样。
- 7.2 "NC,NO and C" discriminating signs of terminals should be carved on the upper housing and be clear. 开关引出端子"NC、NO、C"识别标记应刻在塑胶上盖上,清晰可识别。
- 7.3 There should be "1A 125VAC" rating and certification marks on upper housing. (Refer to individual product drawing) 开关上盖上应有电气额定值: "1A 125VAC"及安规认证标志。(参考规格图纸)
- 8. Packing explanation 包装说明
- 8.1 120 pcs for one small box, 20 small boxes for one white box. 6 white boxes for one big box. 120 pcs 为 1 小盒, 20 盒为1 白盒, 6 个白盒为一箱。
- 9.Quanlity records of delivered goods 出货证明记录
- 9.1 Package boxes or package bags should be attached labels or identifiers of Model No., Quantity and Quality Pursuing No. 成品包装箱或包装袋上应附有产品型号、数量及质量追踪号的标签或标识。
- 9.2 There shall be quality records of inspection and test in package boxed. 出货产品包装批、出货批应附有产品检验、试验之质量证明记录。

SERIES 系列	RIES 系列 MICRO SWITCHES(SDM1)		期:	2015		
Document No.文件名称	DIC/PE003	Edition 版本	С	Page 页码	5/5	

10. Application Notes: 注意事项

10. 1 All parts of the switch can not be dissolved before soldering.

开关焊接前各零件不能被熔化。

10. 2 Switches can not be blown with air gun or cleaned with a solvent after soldering.

开关焊接后不能用气枪吹干或用溶剂去清洗开关。

- 11. Incoming inspection declaring: 验收注意事项
- 11. 1 You must comply with the following principles in the process of the incoming inspecting and using our products, if not, we won't be liable for any damages from it.

我司交付贵司产品,在验收、使用进程中必须遵循以下原则,否则造成一切损失,我司概不负责。

11. 2 The requirement of the incoming inspection must meet the product's specification that have been affirmed and signed by you. If the following things appear in the process of the incoming inspection, the use is restricted, please feed back us in time, we will take back of all.

必须依据我司事先送贵司经贵司签认承认书相关规格要求验收,验收有以下情况请不予使用,退回我司。

11. 3 The products that are attached or sticked by the unqualified labels;

附有或粘贴有检验不合格标识的产品;

11. 4 In the process of the incoming inspection, he following main function parameters must be checked and they must meet the specification. If the sum of the badness rate is more than 1% in the process, the use is restricted, please feedback us in time, we will take back of all.

依承认书规格要求检验下列主要功能参数,必须符合要求,如在贵司验收过程有下述不良超过 1%,请贵司不要使用,及时知会我司并退回。

①Operating Force: (Refer to individual product drawing)

操作力: (参照规格图纸)

②Pre-travel: (Refer to individual product drawing)

行程范围: (参照规格图纸)

③Initial Contact Resistance: (Refer to individual product drawing)

初始状态接触电阻: (参照规格图纸)

4Soldering ability: 235 \pm 5 $^{\circ}$ C/3S,the covering rate of tin is more than 90%;

可焊性(235±5℃ 3S, 覆锡率 90%以上)

⑤Function and action: the operation that the direction of switch operation is vertical with the up-surface of button isn't disabled;

功能动作:产品正压无动作失效;

11. 5 If the serious packaging disrepair of products appears in the process of the incoming inspection, please refuse accepting them and return them to us directly.

贵司在验收过程发现外包装严重破损,请不予收货,直接退还我司。

11. 6 Operating requirement: the direction of switch operating is vertical with the up-surface of button;

使用压动方向:必须正压。

11. 7 If your incoming inspection is careless and it arose that the badness rate of your producing process is more than 1%, we won't be liable for the damage.

因贵司进料验收漏失,导致超过1%以上制程不良损失,我司不负责任。