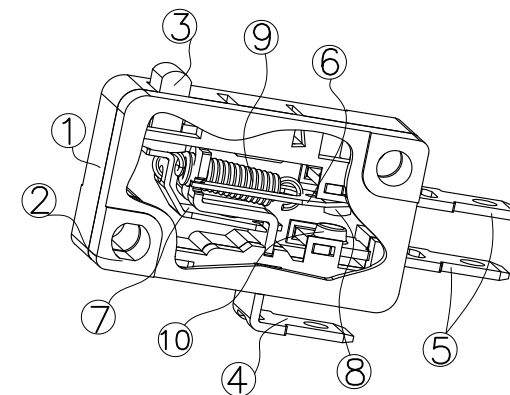
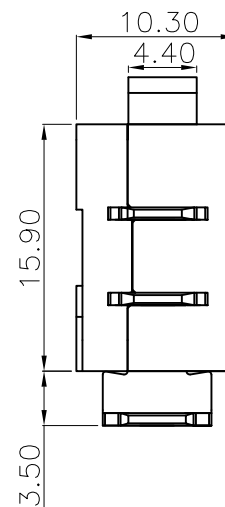
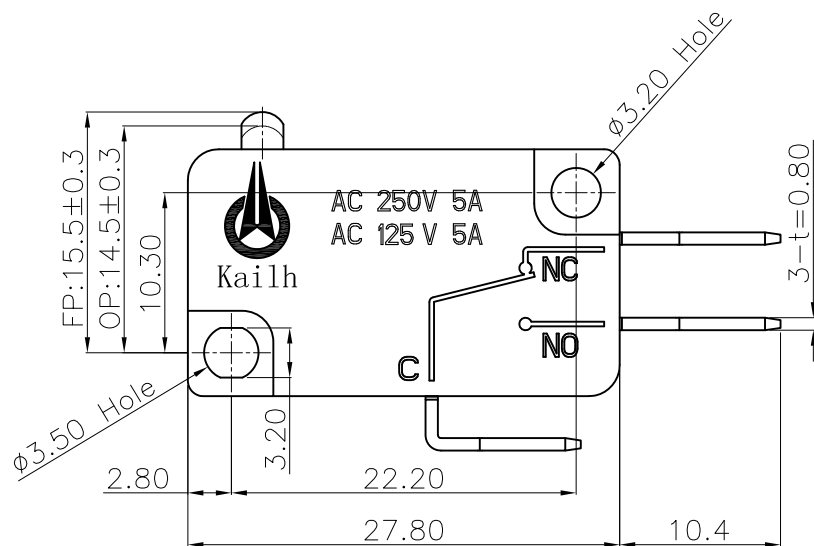
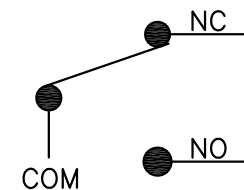
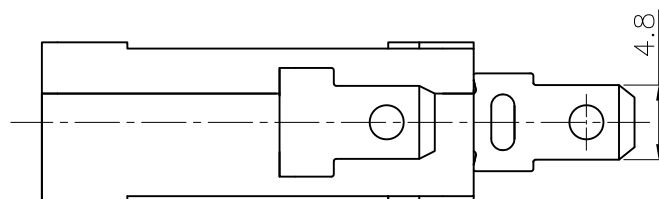


ABIDE BY ROHS



■ Technical specifications:

- Current Ratings: AC 250V 5A / AC 125V 5A
- 2. Contact Resistance: ≤100mΩ
- 3. Insulation Resistance: ≥100MΩ DC500V
- 4. Withstand Voltage: AC1000V 1 minute
- 5. Operating Force: 250±50gf
- 6. Ambient Temp. Used: -20℃ to 80℃
- 7. Electrical Life: 10,000 cycles.
- 8. Mechanical Life: 1,000,000 cycles.



Circuit Diagram

⑩	Stationary Contact		2	Ag Alloy/Cu	Natural	
⑨	Spring		1	Stainless Steel	Natural	
⑧	Moving Contact		1	Ag Alloy	Natural	
⑦	Fixed Rod		1	BRASS	Natural	
⑥	Change Plate		1	BRASS	Natural	
⑤	Terminal	NO/NC	2	BRASS	Ag-Plated	
④	COM. Terminal		1	BRASS	Ag-Plated	
③	Button		1	PBT	Black	
②	Cover		1	PBT	Black	
①	Housing		1	PBT	Black	
ITEM	PART NAME	TER'NO.	QTY.	MATERIAL	FINISHING	REMARK
APPROVALS		DATE		 Kailh KAIHUA ELECTRONICS CO.,LTD		
DRAWN	Lu Pan Hao	2007.02.14				
CHECKED				TITLE:	MI2715 MICRO SWITCH	
APPROVALS				PART NO.	CM1271509W200A	
TOLERANCES ARE	30<L	±0.30	ANGLE	UNIT: mm	SCALE: 2:1	PROJ. 
	10<L≤30	±0.20				
	5<L≤10	±0.15				
	L≤5	±0.10				
			±2°	DRAWING NO.		SHEET 1 OF 1

	B	2018.10.30	REDRAW	L. Zhang		
	A	2007.02.14	NEW	Lu Pan Hao		
ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.

1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value): AC 250V 5A / AC 125V 5A
- 1.2 工作温度(Work Temperature Range): $-25^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- 1.3 存贮温度(Store Temperature Range): $-25^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- 1.4 正常测试条件(未有特殊说明量测在以下条件进行):

General test condition (Tests and measurements shall be made under the following standard conditions unless otherwise specified):

正常温度: $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$ 相对湿度: 45%~85% RH 气压: 8,600~10,600 帕
Temperature: $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$ Relative humidity: 45%~85% Air pressure: 8,600~10,600 pa

2. 产品外观及尺寸要求 Appearance & Dimension Requirement

- 2.1 产品外形结构紧凑, 无配合不良.
The structure of product is compact, and assembly of parts has no badness.
- 2.2 产品塑胶部件无严重缩水、披锋、欠注、斑点、破损或变形现象.
The plastic parts of product have no serious defects such as very serious shrink, scarcity, fleck, disrepair, transmutation, etc.
- 2.3 产品引脚和外壳无严重氧化、脏污、变形、毛刺或电镀不良.
Lead feet and shell have no serious defects such as oxidation, smudge, disrepair, burr, defects on plating.
- 2.4 开关操作顺畅, 节奏感强, 无明显卡塞现象.
Operating switch is unhindered, rhythmical, and there is not palpable clag.
- 2.5 产品结构及尺寸参见产品规格图纸.
Construction and dimensions: Refer to individual product drawing.

3. 电气特性 Electronic Characteristics

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
3.1	接触电阻 Contact Resistance	在低电流 ($\leq 100\text{mA}$) 条件下测试. Measured at low current (100mA or less).	低电阻测试仪 Low Resistance Meter	100m Ω
3.2	绝缘阻抗 Insulation Resistance	测试相邻引脚之间, 引脚与外壳之间的绝缘阻抗. Measurement shall be made between adjacent terminals, between terminal and shell.	绝缘测试机 Insulation Resistance Tester	100M Ω
3.3	耐压测试 Dielectric Withstand Voltage	输入一定电压 (50~60Hz, 电压值 AC1000V) 1 分钟, 漏电流为 2mA, 测试邻近端子间. Apply certain voltage (50~60Hz, AC1000V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity.	耐压测试机 Puncture Tester	没有绝缘破坏. 电弧等异常. No arcing, break down and damaging insulation.

4. 机械特性 Mechanical Characteristics

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
4.1	操作力 Operation Force	逐渐施力操作开关按键，测量开关到达全部工作行程时所需的最大操作力度。 Operate the keystroke of the switch and then increase press strength gradually, Measured maximum operation force while the travel of the switch is full.	测力计 Force Gauge	250±50gf

5. 可靠性测试 Reliability trial

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
5.1	可焊性试验 Solder ability Test	端子顶部被浸入焊锡炉中，温度为 260±5℃，时间 5±1 秒。 The top of the terminals shall be dipped in the solder bath at 260±5℃ for 5±1 seconds.	控温锡炉 Solder Stove	引脚至少 95%上锡。 Ninety-five percent of terminals shall be dipped.
5.2	寿命试验 Operation Life	a. 电器寿命测试:参考安规测试流程。 a. Electrical life test: See the safety testing process b. 机械寿命测试: 无负载 (1)操作频率: 60 次/分钟 (2)推动力: 操作力的最大规格值的两倍 (3)寿命: 1, 000, 000 次 b. Without loading Mechanical life test (1)Operating speed : 60 cycles/minute (2)Push force : maximum value of operating force	a. 负载测试仪 Load testing instrument b. 机械寿命测试机 Mechanical life test of machine	a. 电器寿命: 10, 000 次 Electrical life: 10, 000 cycles b. 试验后: (1)接触电阻:5 欧姆以下 (2)绝缘电阻:10 兆欧姆以上 (3)灵敏度: 5 毫秒以下 (4)耐压强度: AC250V, 1 分钟 (5) 没有出现任何外观和机械功能上的损伤。 After test: (1)Contact resistance:5 ohm Max. (2)Insulation

		twice (3)Mechanical Life: 1, 000, 000 cycles		resistance: 10M ohm Min. (3)Bounce: 5m sec. Max. (4)Withstand voltage: AC250V, 1 minute (5)There shall be no defects in appearance or in the mechanical functions.
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5. 可靠性测试 Reliability trial

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
5.3	耐焊接热 Resistance to Soldering heat	端子焊接部分浸入焊炉，焊炉温度 $260 \pm 5^{\circ}\text{C}$ ，焊接时间 5 ± 1 秒。(焊接时不可于端子施加外力)。 Terminals shall be dipped in the solder bath at $260 \pm 5^{\circ}\text{C}$ for 5 ± 1 seconds without additional force for terminals.	控温锡炉 Solder Stove	本体无变形，能满足于机械、电气性能。 Appearance should be not damaged, electrical and mechanical characteristics shall be satisfied.
5.4	耐高温测试 Resistance to Heat Test	放置在温度 $85 \pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。 The switch shall be stored at a temperature of $85 \pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.	高低温 试验机 High & Low Temperature Tester	外观，机械及电气性能均符合要求。 Appearance, electrical and mechanical characteristics shall be satisfied.
5.5	耐低温测试 Resistance to Cold Test	放置在温度 $-30 \pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。 The switch shall be stored at a temperature of $-30 \pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.	高低温 试验机 High & Low Temperature Tester	外观，机械及电气性能均符合要求。 Appearance, electrical and mechanical characteristics shall be satisfied.
5.6	耐湿性测试 Resistance to Humidity Test	放置于温度 $40 \pm 2^{\circ}\text{C}$ ，相对湿度为 90~96% 环境中 96 小时后，再置于正常条件下 1 小时后测定(注意要擦去水滴)。 The switch shall be stored at a temperature of $40 \pm 2^{\circ}\text{C}$, relative humidity 90~96% for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour (Wipe out water drip).	恒温恒湿箱 Temperature & Humidity Tester Chamber	外观，机械及电气性能均符合要求。 Appearance, electrical and mechanical characteristics shall be satisfied.

5.7	盐雾实验 Salt Mist Test	试件在下述实验后测量： 1. 温度： $35\pm5^{\circ}\text{C}$ 2. 盐溶液浓度： $5\pm1\%$ （质量百分比）， 3. 试验时间： 24 小时， 4. 试验后，将盐沉积物用水冲掉。 The switch shall be checked after following test： 1. Temperature: $35\pm5^{\circ}\text{C}$ 2. Salt solution: $5\pm1\%$ (Solids by mass) 3. Duration: 24 hours, 4. After immersing, salt deposit shall be removed by running water.	盐雾 试验机 Salt Spray Tester	在金属件上没有严重腐蚀斑点。 No remarkable corrosion shall be recognized in metal parts.
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