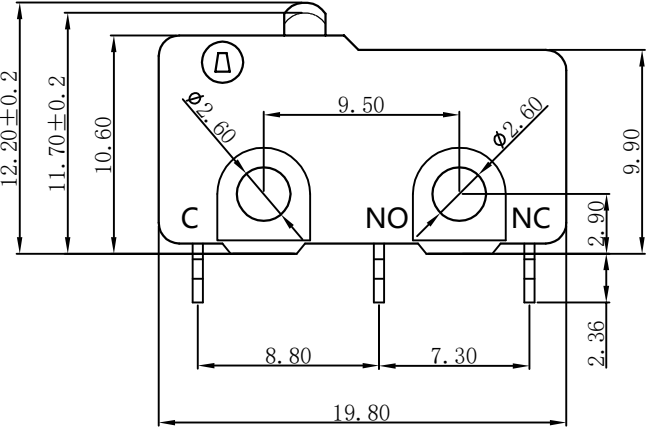
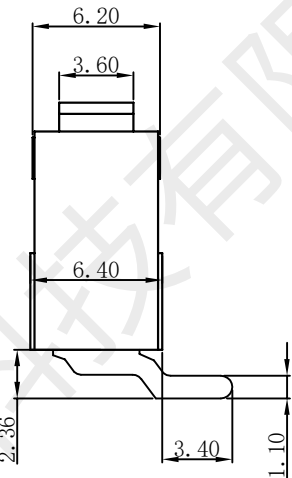
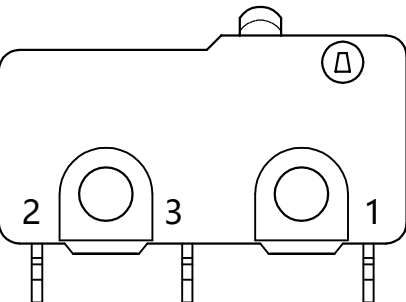
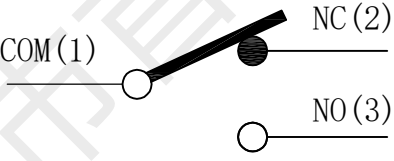
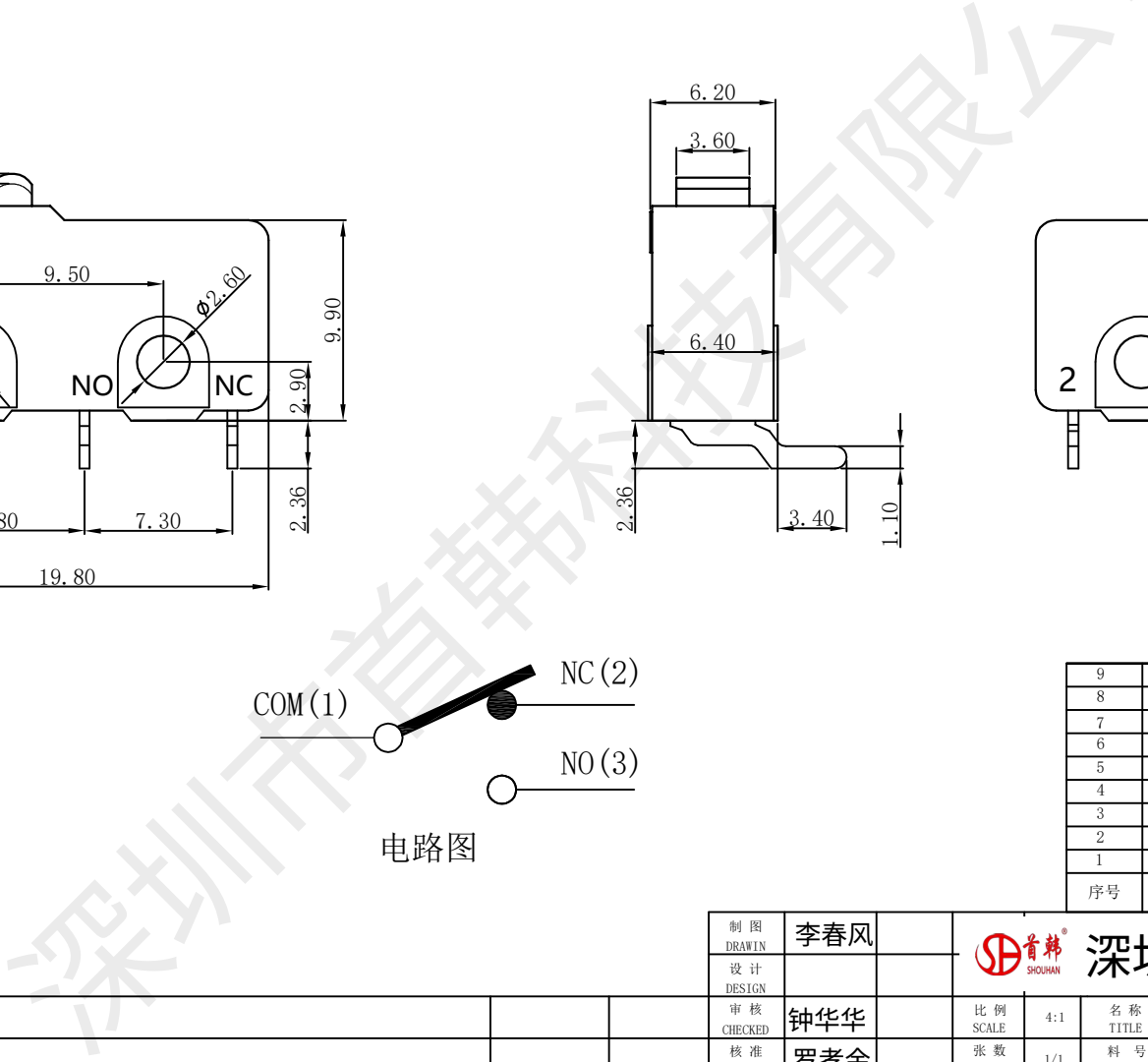


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------------|----------|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|---------|-----------------------|-----|---------------|----------------------------------------------------------------------------------------------------------------------------|---------|------|------------|----|------|---------|--|---|---------|-------|--------|--|---|-------|---|-----------|-----------|-------|------|---|-------|-------|---|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|---|-------|---|-------|--|---|----|-----|-----|---------|------|----|-----|-----|---------|-------------|----|-----|-----|---------|----|------|-----|-------|-----|----|-----|------|--|------|-------|------|--|--|--|--|----------|
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |         | B           |          | C    |         | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | E             |         | F                     |     | G             |                                                                                                                            | H       |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div>                                                                                                                                                                                                                                                                                                                                                                                            |         |         |             |          |      |         | Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | 50mA 125VAC   |         | Mechanical Life       |     | 50,000 cycles |                                                                                                                            | 1       |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |             |          |      |         | Contact Resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 500mΩ Max     |         | Electrical Life       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |             |          |      |         | Insulation Resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | >100MΩ DC500V |         | Ambient Temper. Used  |     | -25℃ to +105℃ |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |             |          |      |         | Withstand Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | AC1500V 1min. |         | Ambient Humidity Used |     | ≤85% at +40℃  |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |             |          |      |         | Soldering Temper.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 235±5℃ 5s     |         | Operating Force       |     | 220-320gf max |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div>                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| <div>12.20±0.2</div> <div>11.70±0.2</div> <div>10.60</div> <div>9.90</div> <div>2.90</div> <div>2.36</div> <div>19.80</div> <div>8.80</div> <div>7.30</div> <div>9.50</div> <div>2.60</div> <div>2.60</div> <div>NO</div> <div>NC</div> <div>C</div>                                                                                                                                    |         |         |             |          |      |         | <div>6.20</div> <div>3.60</div> <div>6.40</div> <div>2.36</div> <div>3.40</div> <div>1.10</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |               |         |                       |     |               | <div>2</div> <div>3</div> <div>1</div>  |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| <div>COM(1)</div> <div>NC(2)</div> <div>NO(3)</div> <div>电路图</div>                                                                                                                                                                                                                                                                                                                   |         |         |             |          |      |         | <table><tr><td>9</td><td>触点</td><td>2</td><td>C2680</td><td></td></tr><tr><td>8</td><td>弹簧</td><td>1</td><td>SUS304</td><td></td></tr><tr><td>7</td><td>弹片</td><td>1</td><td>C5191/紫铜点</td><td></td></tr><tr><td>6</td><td>NO端子</td><td>1</td><td>C2680</td><td></td></tr><tr><td>5</td><td>NC端子</td><td>1</td><td>C2680</td><td></td></tr><tr><td>4</td><td>COM端子</td><td>1</td><td>C2680</td><td></td></tr><tr><td>3</td><td>按钮</td><td>1</td><td>PBT</td><td>UL94V-0</td></tr><tr><td>2</td><td>下盖</td><td>1</td><td>PBT</td><td>UL94V-0</td></tr><tr><td>1</td><td>上盖</td><td>1</td><td>PBT</td><td>UL94V-0</td></tr><tr><td>序号</td><td>零件名称</td><td>数量</td><td>材质</td><td>备注</td></tr></table> |        |               |         |                       |     |               |                                                                                                                            |         |      | 9          | 触点 | 2    | C2680   |  | 8 | 弹簧      | 1     | SUS304 |  | 7 | 弹片    | 1 | C5191/紫铜点 |           | 6     | NO端子 | 1 | C2680 |       | 5 | NC端子 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                  | C2680 |  | 4 | COM端子 | 1 | C2680 |  | 3 | 按钮 | 1   | PBT | UL94V-0 | 2    | 下盖 | 1   | PBT | UL94V-0 | 1           | 上盖 | 1   | PBT | UL94V-0 | 序号 | 零件名称 | 数量  | 材质    | 备注  |    |     |      |  |      |       |      |  |  |  |  |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 触点      | 2       | C2680       |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 弹簧      | 1       | SUS304      |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 弹片      | 1       | C5191/紫铜点   |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NO端子    | 1       | C2680       |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NC端子    | 1       | C2680       |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COM端子   | 1       | C2680       |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 按钮      | 1       | PBT         | UL94V-0  |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 下盖      | 1       | PBT         | UL94V-0  |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 上盖      | 1       | PBT         | UL94V-0  |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 序号                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 零件名称    | 数量      | 材质          | 备注       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| <table><tr><td>制 图</td><td>李春风</td><td colspan="2"></td></tr><tr><td>设 计</td><td></td><td colspan="2"></td></tr><tr><td>审 核</td><td>钟华华</td><td colspan="2"></td></tr><tr><td>核 准</td><td>罗孝金</td><td colspan="2"></td></tr><tr><td>一 般 公 差</td><td>±0.20</td><td colspan="2"></td></tr><tr><td></td><td>±0.15</td><td colspan="2"></td></tr><tr><td>TOLERANCE</td><td>±0.10</td><td colspan="2"></td></tr><tr><td></td><td>±0.05</td><td colspan="2"></td></tr></table> |         |         |             |          |      |         | 制 图                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 李春风    |               |         | 设 计                   |     |               |                                                                                                                            | 审 核     | 钟华华  |            |    | 核 准  | 罗孝金     |  |   | 一 般 公 差 | ±0.20 |        |  |   | ±0.15 |   |           | TOLERANCE | ±0.10 |      |   |       | ±0.05 |   |      | <table><tr><td>比 例</td><td>4:1</td><td>名 称</td><td colspan="2">微动开关</td></tr><tr><td>张 数</td><td>1/1</td><td>料 号</td><td colspan="2">3JWD-HDWB-R</td></tr><tr><td>单 位</td><td>mm</td><td>模 具 编 号</td><td colspan="2"></td></tr><tr><td>角 度</td><td>±2.0°</td><td>纸 张</td><td>A4</td><td>角 法</td></tr><tr><td>ANGL</td><td></td><td>SIZE</td><td>PROJ.</td><td>工程 圖</td></tr><tr><td></td><td></td><td></td><td></td><td>ENG DRAW</td></tr></table> |       |  |   |       |   |       |  |   |    | 比 例 | 4:1 | 名 称     | 微动开关 |    | 张 数 | 1/1 | 料 号     | 3JWD-HDWB-R |    | 单 位 | mm  | 模 具 编 号 |    |      | 角 度 | ±2.0° | 纸 张 | A4 | 角 法 | ANGL |  | SIZE | PROJ. | 工程 圖 |  |  |  |  | ENG DRAW |
| 制 图                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 李春风     |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 设 计                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 审 核                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 钟华华     |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 核 准                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 罗孝金     |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 一 般 公 差                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±0.20   |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±0.15   |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| TOLERANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.10   |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±0.05   |         |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 比 例                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4:1     | 名 称     | 微动开关        |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 张 数                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1/1     | 料 号     | 3JWD-HDWB-R |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 单 位                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mm      | 模 具 编 号 |             |          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 角 度                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ±2.0°   | 纸 张     | A4          | 角 法      |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| ANGL                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | SIZE    | PROJ.       | 工程 圖     |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |             | ENG DRAW |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| <table><tr><td>版 本</td><td>ECN 编号</td><td>日 期</td><td colspan="2">变 更 内 容</td><td>修 改</td><td>核 准</td></tr><tr><td>REV.</td><td>ECN NO.</td><td>DATE</td><td colspan="2">DEFINITION</td><td>DRAW</td><td>APPROVE</td></tr></table>                                                                                                                                                                                                                                       |         |         |             |          |      |         | 版 本                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ECN 编号 | 日 期           | 变 更 内 容 |                       | 修 改 | 核 准           | REV.                                                                                                                       | ECN NO. | DATE | DEFINITION |    | DRAW | APPROVE |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| 版 本                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ECN 编号  | 日 期     | 变 更 内 容     |          | 修 改  | 核 准     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| REV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ECN NO. | DATE    | DEFINITION  |          | DRAW | APPROVE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |               |         |                       |     |               |                                                                                                                            |         |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |         | B           |          | C    |         | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | E             |         | F                     |     | G             |                                                                                                                            | H       |      |            |    |      |         |  |   |         |       |        |  |   |       |   |           |           |       |      |   |       |       |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |  |   |       |   |       |  |   |    |     |     |         |      |    |     |     |         |             |    |     |     |         |    |      |     |       |     |    |     |      |  |      |       |      |  |  |  |  |          |





深圳市首韩科技有限公司

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## 承 认 书

### SPECIFICATION FOR APPROVAL

产 品 编 码

Material code:

产品名称 Project:

微动开关

规格型号 Part No:

3JWD-HDWB-R

贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |                                                                                      |
|-------------|-----|--------------------------------------------------------------------------------------|
| 拟制/Drawn    | 李春风 |  |
| 审核/Check    | 钟华华 |                                                                                      |
| 批准/Approved | 罗孝金 |                                                                                      |



## 规格书 SPECIFICATION

### 1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value): AC 125V 50mA
- 1.2 工作温度(Work Temperature Range):  $-25^{\circ}\text{C} \sim 105^{\circ}\text{C}$
- 1.3 贮存温度(Store Temperature Range):  $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- 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, rhythmmed, 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<br>Item                          | 测试方法<br>Test Method                                                                                                                                                                        | 测试设备<br>Equipment                     | 特性要求<br>Requirements                                                |
|-----|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------|
| 3.1 | 接触电阻<br>Contact Resistance           | 在低电流 ( $\leq 100\text{mA}$ ) 条件下测试.<br>Measured at low current (100mA or less).                                                                                                            | 低电阻测试仪<br>Low Resistance Meter        | 500m $\Omega$ MAX                                                   |
| 3.2 | 绝缘阻抗<br>Insulation Resistance        | 测试相邻引脚之间, 引脚与外壳之间的绝缘阻抗.<br>Measurement shall be made between adjacent terminals, between terminal and shell.                                                                               | 绝缘测试机<br>Insulation Resistance Tester | 100M $\Omega$ MIN                                                   |
| 3.3 | 耐压测试<br>Dielectric Withstand Voltage | 输入一定电压 (50~60Hz, 电压值 AC 1500V) 1 分钟, 漏电流为 2mA, 测试邻近端子间.<br>Apply certain voltage (50~60Hz, AC 1500V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity. | 耐压测试机<br>Puncture Tester              | 没有绝缘破坏.<br>电弧等异常.<br>No arcing, break down and damaging insulation. |

## 4. 机械特性 Mechanical Characteristics

| No. | 项 目<br>Item              | 测试方法<br>Test Method                                                                                                                                                                             | 测试设备<br>Equipment  | 特性要求<br>Requirements |
|-----|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|
| 4.1 | 操 作 力<br>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。<br>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<br>Force Gauge | 220gf ~ 320gf        |

## 5. 可靠性测试 Reliability trial

| No. | 项 目<br>Item                          | 测试方法<br>Test Method                                                                                                                                                                                                         | 测试设备<br>Equipment    | 特性要求<br>Requirements                                                                                                                                                                                                                                                                                                             |
|-----|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 | 可焊性试验<br>Solder ability Test         | 端子顶部被浸入焊锡炉中，温度为 $235 \pm 5^{\circ}\text{C}$ ，时间 $5 \pm 1$ 秒。<br>The top of the terminals shall be dipped in the solder bath at $235 \pm 5^{\circ}\text{C}$ for $5 \pm 1$ seconds.                                           | 控温锡炉<br>Solder Stove | 引脚至少 95%上锡。<br>Ninety-five percent of terminals shall be dipped.                                                                                                                                                                                                                                                                 |
| 5.2 | 寿命试验<br>Operation Life               | 开关在寿命试验设备上以约 90 次 / 分的速度连续被操作，具体次数见规格图示。<br>Switch shall be operated continuously at about 90 cycles /min without load.                                                                                                     | 寿命试验机<br>Life Tester | 寿命:50000 次<br>实验后:<br>绝缘电阻: $10\text{M}\Omega$ Min<br>操作力: 变化在 $\pm 50\%$ 内开关外观及结构无损坏。<br>Life test:50000 cycles<br>After test, Insulation resistance: $10\text{M}\Omega$ Min<br>Operating force: Change should be within $\pm 50\%$ of specified value.<br>No abnormalities shall be recognized in appearance and construction. |
| 5.3 | 耐焊接热<br>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 $5 \pm 1$ 秒。(焊接时不可于 端子施加外力)。<br>Terminals shall be dipped in the solder bath at $260 \pm 5^{\circ}\text{C}$ for $5 \pm 1$ seconds without additional force for terminals. | 控温锡炉<br>Solder Stove | 本体无变形，能满足于机械、电气性能。<br>Appearance should be not damaged, electrical and mechanical characteristics shall be satisfied.                                                                                                                                                                                                            |

## 5. 可靠性测试 Reliability trial

| No. | 项 目<br>Item                          | 测试方法<br>Test Method                                                                                                                                                                                                                                                                                                                                                          | 测试设备<br>Equipment                              | 特 性 要 求<br>Requirements                                                                       |
|-----|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 5.4 | 耐高温测试<br>Resistance to Heat Test     | 放置在温度 $80\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。<br>The switch shall be stored at a temperature of $80\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.                                                                                                                               | 高低温试验机<br>High & Low Temperature Tester        | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.5 | 耐低温测试<br>Resistance to Cold Test     | 放置在温度 $-20\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。<br>The switch shall be stored at a temperature of $-20\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.                                                                                                                             | 高低温试验机<br>High & Low Temperature Tester        | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.6 | 耐湿性测试<br>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)。<br>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<br>Temperature & Humidity Tester Chamber | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.7 | 盐雾实验<br>Salt Mist Test               | 试件在下述实验后测量：<br>1. 温度： $35\pm 5^{\circ}\text{C}$<br>2. 盐溶液浓度： $5\pm 1\%$ （质量百分比），<br>3. 试验时间： 24 小时，<br>4. 试验后，将盐沉积物用水冲掉。<br>The switch shall be checked after following test:<br>1. Temperature: $35\pm 5^{\circ}\text{C}$<br>2. Salt solution: $5\pm 1\%$ (Solids by mass)<br>3. Duration: 24 hours,<br>4. After immersing, salt deposit shall be removed by running water. | 盐雾试验机<br>Salt Spray Tester                     | 在金属件上没有严重腐蚀斑点。<br>No remarkable corrosion shall be recognized in metal parts.                 |