

RoHS

Specifications(规格):

- Voltage rating (额定电压): 250V AC / DC
- Current rating(额定电流): 5A AC / DC
- Withstanding voltage(耐压值): 750V AC/minute
- Temperature range(工作温度): -40°C~+105°C
- Insulation resistance(绝缘电阻): ≥1000MΩ
- Contact resistance(接触电阻): ≤20mΩ
- After environmental testing(环境测试后): ≤40mΩ

- Suitable Terminal: M1801T

M 18 01 H - XX 4T B  
① ② ③ ④ ⑤ ⑥ ⑦

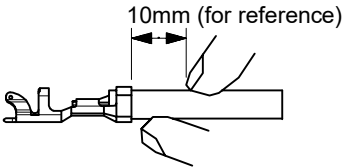
- ① Letter: Molex
- ② Series No.: 1.80 MM
- ③ Code Name
- ④ Category H-Housing
- ⑤ Row No.-Pin No: 2Pin~16Pin
- ⑥ Plastic Material: XX- PAXX, UL94V-0, LP- LCP, UL94V-0
- ⑦ Color: N-White, R-Red, B-Black, L-Blue

| Poles | Dimensions(mm) |       |       |
|-------|----------------|-------|-------|
|       | A              | B     | C     |
| 02    | 5.20           | 3.60  | 3.70  |
| 03    | 7.00           |       | 5.50  |
| 04    | 8.80           | 5.40  | 7.30  |
| 05    | 10.60          | 7.20  | 9.10  |
| 06    | 12.40          | 9.00  | 10.90 |
| 07    | 14.20          | 10.80 | 12.70 |
| 08    | 16.00          | 12.60 | 14.50 |
| 09    | 17.80          | 14.40 | 16.30 |
| 10    | 19.60          | 16.20 | 18.10 |
| 11    | 21.40          | 18.00 | 19.90 |
| 12    | 23.20          | 19.80 | 21.70 |
| 13    | 25.00          | 21.60 | 23.50 |
| 14    | 26.80          | 23.40 | 25.30 |
| 15    | 28.60          | 25.20 | 27.10 |
| 16    | 30.40          | 27.00 | 28.90 |

|      |         |         |     |             |       |                                         |                                                                                |                                                                                       |       |       |      |                           |        |       |       |
|------|---------|---------|-----|-------------|-------|-----------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|-------|------|---------------------------|--------|-------|-------|
|      |         |         |     |             |       |                                         | GENERAL<br>TOLERANCE<br><br>.X       ±0.30<br>.XX      ±0.20<br>.XXX     ±0.10 | 东莞市翰皓精密电子有限公司<br>DONGGUAN HANHAO PRECISION ELECTRONIC CO.,LTD                         |       |       |      | PART NO.<br><br>M1801H-XX |        |       |       |
|      |         |         |     |             |       | TITLE<br>1.80 mm Crimp Style Connectors |                                                                                |                                                                                       |       |       |      |                           |        |       |       |
|      |         |         |     |             |       | APPROVAL                                |                                                                                | CHECK                                                                                 | DRAWN | DATE  | UNIT | SCALE                     | NUMBER | REV   |       |
| DATE | OLD REV | NEW REV | ECN | DESCRIPTION | CHECK | APPROVAL                                |                                                                                |  | XU    | L.Q.F | LI   | 2025/06/07                | MM     | 1 : 1 | A-198 |

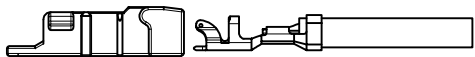
插入端子时的注意点  
CAUTION WHEN INSERTING A CRIMP TERMINAL

请抓住距离压接端子10毫米的电线部分。  
HOLD THE CABLE ABOUT 10 MM AWAY FROM THE CRIMP TERMINAL BY GENTLY PICKING IT WITH YOUR FINGER.



为保持产品功能，请勿将压接端子插入下图所示的斜上方方向。  
TO MAINTAIN THE PRODUCT FUNCTION, DO NOT INSERT THE CRIMP TERMINAL DIAGONALLY UPWARD

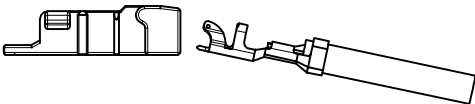
○ Good 水平方向  
INSERT STRAIGHT



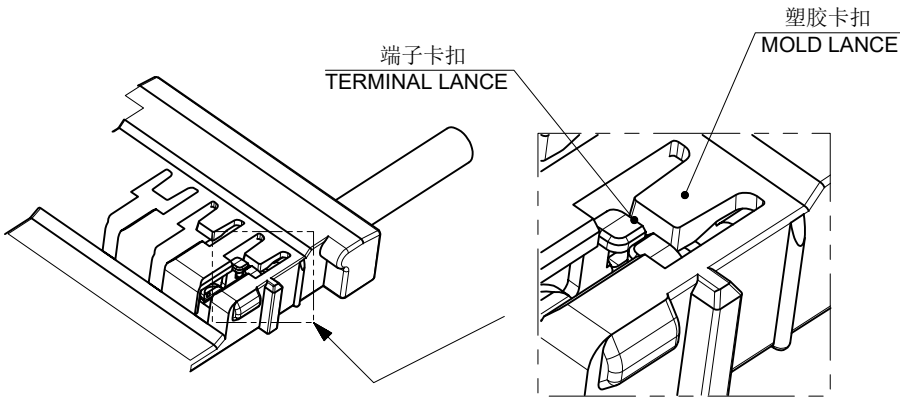
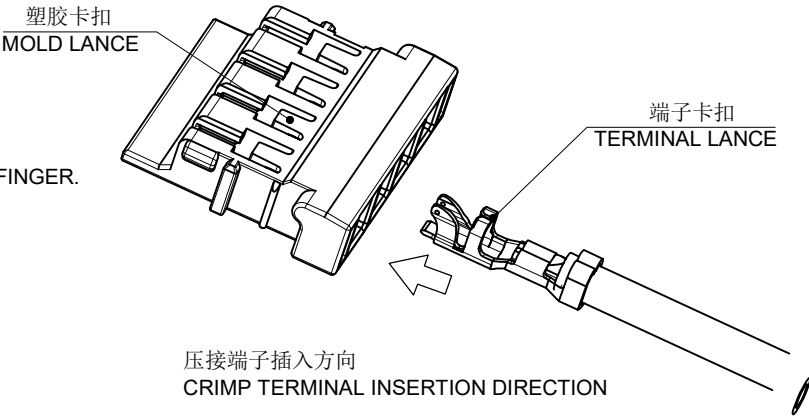
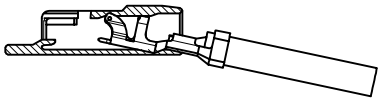
○ Good 斜向下方向  
INSERT DIAGONALLY DOWNWARD



× Not good 斜向上方向  
INSERT DIAGONALLY UPWARD



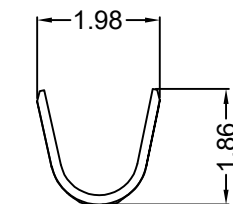
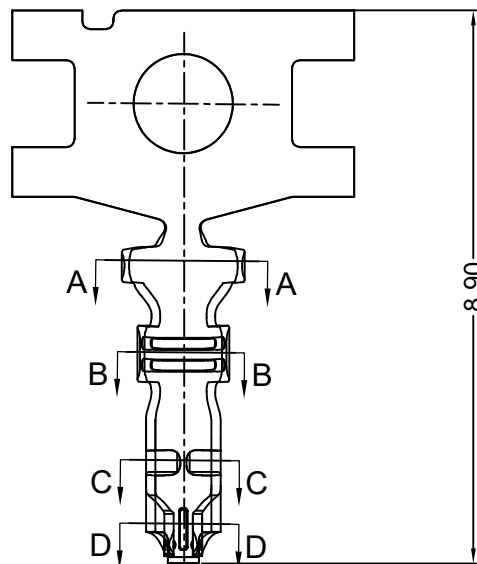
将压接端子插入斜上方，模具可能损坏。  
IF THE CRIMP TERMINAL IS INSERTED DIAGONALLY UPWARD,  
THERE MIGHT BE POSSIBILITY OF THE MOLD LANCE DAMAGED.



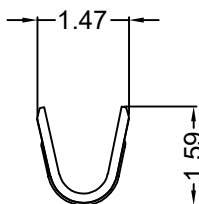
请确认压接端子的卡扣已挂在胶壳的塑胶卡扣上。  
MAKE SURE THAT THE TERMINAL LANCE IS CAUGHT  
BY THE MOLD LANCE OF HOUSING

|      |         |         |     |             |       |          |                   |       |                                              |       |       |            |                                 |       |        |     |
|------|---------|---------|-----|-------------|-------|----------|-------------------|-------|----------------------------------------------|-------|-------|------------|---------------------------------|-------|--------|-----|
|      |         |         |     |             |       |          | GENERAL TOLERANCE |       | 东莞市翰皓精密电子有限公司                                |       |       |            | PART NO. M1801                  |       |        |     |
|      |         |         |     |             |       |          | .X                | ±0.30 | DONGGUAN HANHAO PRECISION ELECTRONIC CO.,LTD |       |       |            | TITLE Product Assembly Drawings |       |        |     |
|      |         |         |     |             |       |          | .XX               | ±0.20 | APPROVAL                                     | CHECK | DRAWN | DATE       | UNIT                            | SCALE | NUMBER | REV |
|      |         |         |     |             |       |          | .XXX              | ±0.10 | XU                                           | L.Q.F | LI    | 2025/07/24 | MM                              | 1 : 1 | A-198  | A   |
| DATE | OLD REV | NEW REV | ECN | DESCRIPTION | CHECK | APPROVAL | PROJECT           |       |                                              |       |       |            |                                 |       |        |     |
|      |         |         |     |             |       |          |                   |       |                                              |       |       |            |                                 |       |        |     |

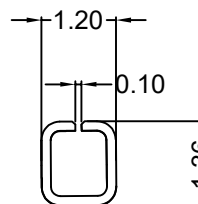
RoHS



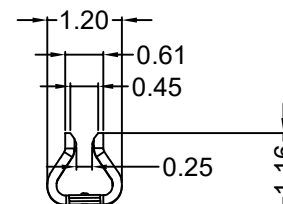
SECTION: A-A  
SCALE: 1:1



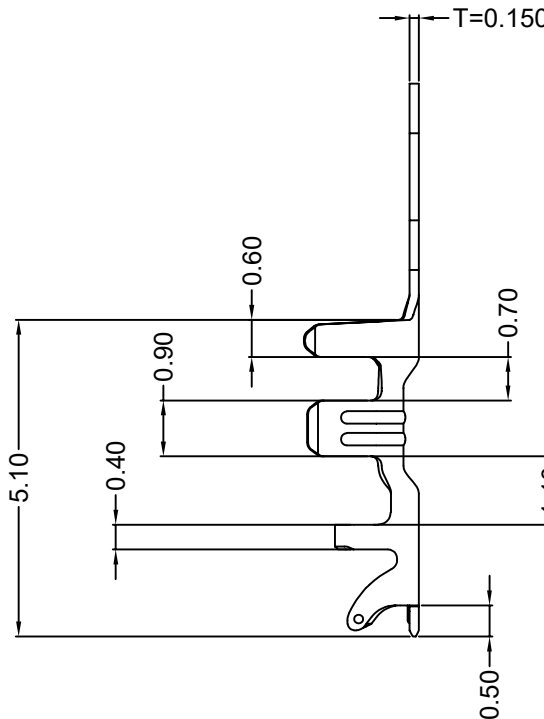
SECTION: B-B  
SCALE: 1:1



SECTION: C-C  
SCALE: 1:1



SECTION: D-D  
SCALE: 1:1



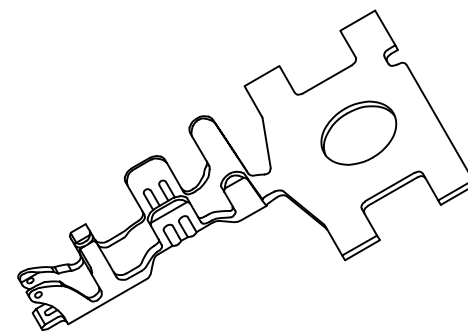
■ Specifications(规格):

- Voltage rating(额定电压): 250V AC / DC
- Current rating(额定电流): 5A AC / DC
- Withstanding voltage(耐压值): 750V AC/minute
- Temperature range(工作温度): -40°C~+105°C
- Insulation resistance(绝缘电阻):  $\geq 1000\text{M}\Omega$
- Contact resistance(接触电阻):  $\leq 20\text{m}\Omega$
- After environmental testing(环境测试后):  $\leq 40\text{m}\Omega$

- Wire Size: AWG#22~24(0.325~0.205mm<sup>2</sup>)
- Insulation O.D.: 1.11~1.26mm(Max)

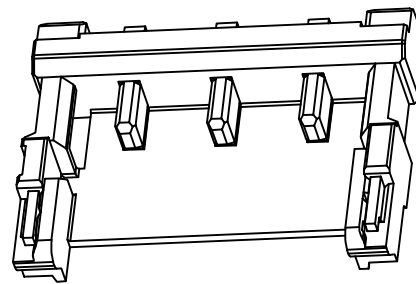
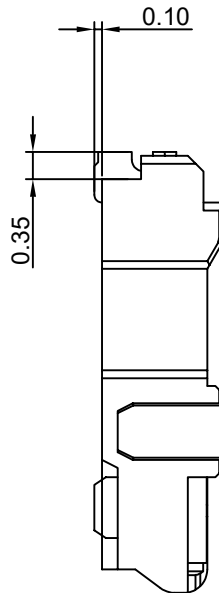
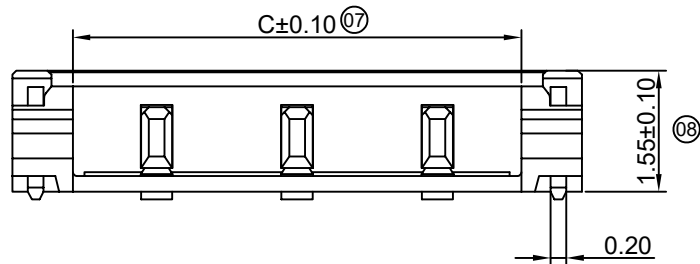
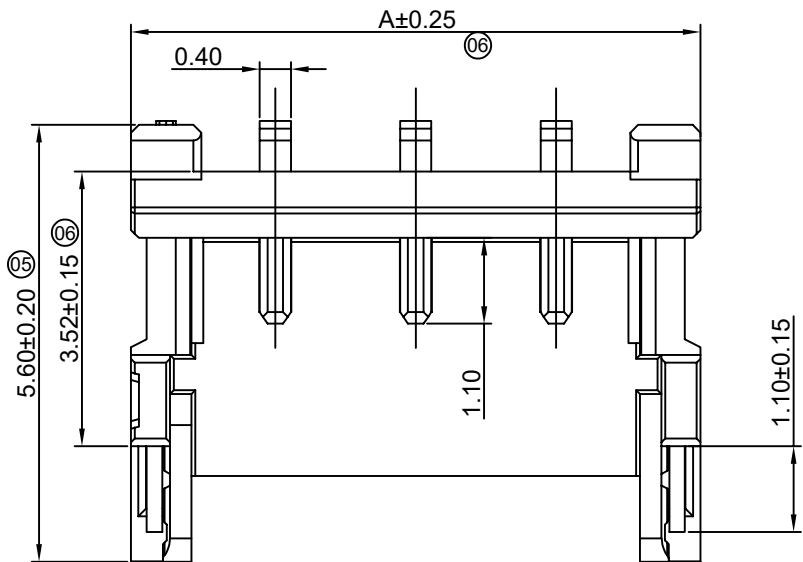
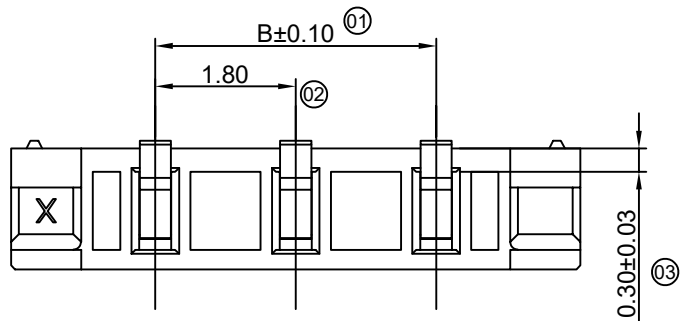
M 18 01 T P XX  
① ② ③ ④ ⑤ ⑥

- ① Letter: Molex
- ② Series No.: 1.80 MM
- ③ Code Name
- ④ Category: T- Terminal
- ⑤ Material: Phosphor Bronze
- ⑥ Finish:
  - 37-Gold-Tin Plating 3u
  - 41-Bright Tin over Nickel Plating (Ni50u~100u" Sn100~200u")
  - 42-Matte Tin over Nickel Plating (Ni50u~100u" Sn100~200u")



|  |  |  |  |  |  |  |                   |  |                                              |  |  |  |                        |  |  |  |
|--|--|--|--|--|--|--|-------------------|--|----------------------------------------------|--|--|--|------------------------|--|--|--|
|  |  |  |  |  |  |  | GENERAL TOLERANCE |  | 东莞市翰皓精密电子有限公司                                |  |  |  | PART NO.               |  |  |  |
|  |  |  |  |  |  |  |                   |  | DONGGUAN HANHAO PRECISION ELECTRONIC CO.,LTD |  |  |  | M1801-T                |  |  |  |
|  |  |  |  |  |  |  |                   |  | APPROVAL                                     |  |  |  | TITLE                  |  |  |  |
|  |  |  |  |  |  |  |                   |  | XU                                           |  |  |  | 1.80 mm Pitch Terminal |  |  |  |
|  |  |  |  |  |  |  |                   |  | L.Q.F                                        |  |  |  | UNIT                   |  |  |  |
|  |  |  |  |  |  |  |                   |  | LI                                           |  |  |  | SCALE                  |  |  |  |
|  |  |  |  |  |  |  |                   |  | 2025/06/05                                   |  |  |  | NUMBER                 |  |  |  |
|  |  |  |  |  |  |  |                   |  |                                              |  |  |  | REV                    |  |  |  |
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|  |  |  |  |  |  |  |                   |  |                                              |  |  |  |                        |  |  |  |

RoHS



■ Specifications(规格) :

- Voltage rating (额定电压) : 250V AC / DC
- Current rating (额定电流) : 5A AC / DC(AWG 24#)
- Withstanding voltage (耐压值) : 750V AC/minute
- Temperature range (工作温度) : -40°C~+105°C
- Insulation resistance (绝缘电阻) : ≥1000MΩ
- Contact resistance (接触电阻) : ≤20mΩ
- After environmental testing (环境测试后) : ≤40mΩ

- Suitable Terminal: M1801T
- Mate With Housing: M1801H

M 18 01 W R S - XX 46 B  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Letter: Molex
- ② Series No.: 1.80 MM
- ③ Code Name
- ④ Category: W-Wafer
- ⑤ Welding Board Angle: R-Right Angle 90°
- ⑥ Welding form: S-SMT
- ⑦ Row No.-Pin No: XX-Single Row; 02Pin~16PIN
- ⑧ Plastic Material: XX- PAXX, UL94V-0, LP- LCP, UL94V-0
- ⑨ Color: N-White, R-Red, B-Black, L-Blue

| Poles | Dimensions(mm) |       |       |
|-------|----------------|-------|-------|
|       | A              | B     | C     |
| 02    | 5.50           | 3.95  | 3.95  |
| 03    | 7.30           | 3.60  | 5.75  |
| 04    | 9.10           | 5.40  | 7.55  |
| 05    | 10.90          | 7.20  | 9.35  |
| 06    | 12.70          | 9.00  | 11.15 |
| 07    | 14.50          | 10.80 | 12.95 |
| 08    | 16.30          | 12.60 | 13.75 |
| 09    | 18.10          | 14.40 | 15.55 |
| 10    | 19.90          | 16.20 | 17.35 |
| 11    | 21.70          | 18.00 | 19.15 |
| 12    | 23.50          | 19.80 | 20.95 |
| 13    | 25.30          | 21.60 | 22.75 |
| 14    | 27.10          | 23.40 | 24.55 |
| 15    | 28.90          | 25.20 | 26.35 |
| 16    | 30.70          | 27.00 | 28.15 |

|      |         |         |     |             |       |          |
|------|---------|---------|-----|-------------|-------|----------|
|      |         |         |     |             |       |          |
|      |         |         |     |             |       |          |
|      |         |         |     |             |       |          |
| DATE | OLD REV | NEW REV | ECN | DESCRIPTION | CHECK | APPROVAL |
| 1    |         |         |     |             |       |          |
| 2    |         |         |     |             |       |          |
| 3    |         |         |     |             |       |          |
| 4    |         |         |     |             |       |          |

| GENERAL TOLERANCE |       |
|-------------------|-------|
| .X                | ±0.30 |
| .XX               | ±0.20 |
| .XXX              | ±0.10 |

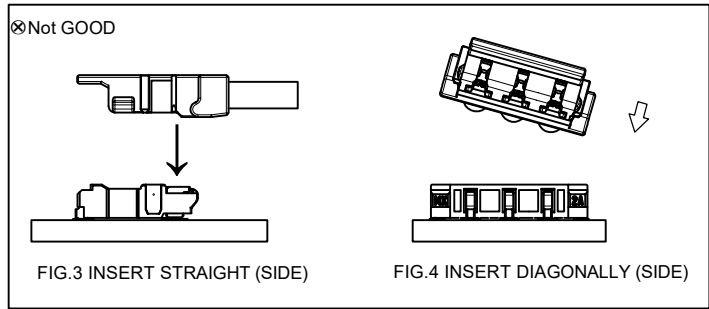
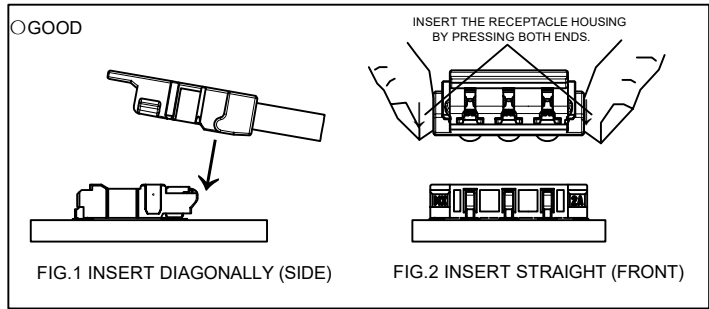
| PROJECT |   |
|---------|---|
| ⊕       | ⊖ |

|                                              |       |       |            |
|----------------------------------------------|-------|-------|------------|
| 东莞市翰皓精密电子有限公司                                |       |       |            |
| DONGGUAN HANHAO PRECISION ELECTRONIC CO.,LTD |       |       |            |
| APPROVAL                                     | CHECK | DRAWN | DATA       |
| XU                                           | L.Q.F | LI    | 2025/06/09 |

|                                |       |        |     |
|--------------------------------|-------|--------|-----|
| PART NO.                       |       |        |     |
| M1801WRS-XX                    |       |        |     |
| TITLE                          |       |        |     |
| 1.80 mm Crimp Style Connectors |       |        |     |
| UNIT                           | SCALE | NUMBER | REV |
| MM                             | 1 : 1 | A-198  | A   |

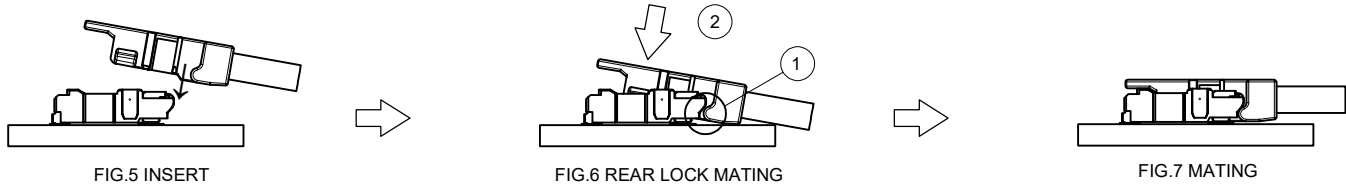
连接时的注意事项 CAUTION WHEN MATING THE CONNECTOR

连接器应尽可能与结合轴平行  
PLEASE MATE THE CONNECTER IN PARALLEL WITH THE MATING AXIS AS MUCH AS POSSIBLE



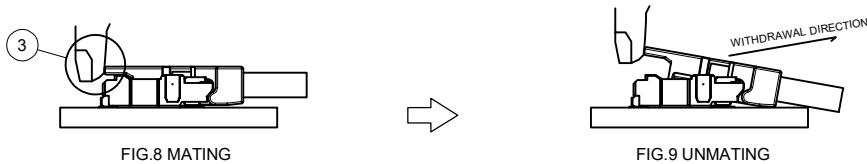
配对 MATING

将插座和插头外壳上的每个后锁（图 6 ①）定位并对齐后，  
推动插座外壳上的箭头部分（图 6 ②）使其对接，直至插头外壳和插座外壳相互接触。  
AFTER POSITIONING AND FACING EACH REAR LOCK (FIG.6 ①) OF BOTH RECEPTACLE AND PLUG HOUSING,  
PUSH THE ARROW PART OF RCEPTACLE HOUSING (FIG.6 ②) TO MATE UNTIL BOTH PLUG AND RECEPTACLE HOUSINGS STRIKE EACH OTHER.



解除配对 UNMATING

请将手指放在插座外壳的锁定片（图 8 ③）上，用手指的掌面将锁定片向上倾斜拉起，使其完全解锁。  
然后，请缓慢且呈斜向的方式抽出插座外壳。  
PLEASE PLACE FINGERS ON THE LOCKING TAB (FIG.8 ③) OF THE RECEPTACLE HOUSING AND, USING THE FLAT OF FINGERS,  
RIFT THE LOCKING TAB UPWARD AT AN ANGLE TO FULLY RELEASE THE LOCK,  
THEN PLEASE WITHDRAW THE RECEPTACLE HOUSING SLOWLY AND DIAGONALLY.



|      |         |         |     |             |       |          |                                                          |                                                               |       |       |            |                                    |                |                 |          |
|------|---------|---------|-----|-------------|-------|----------|----------------------------------------------------------|---------------------------------------------------------------|-------|-------|------------|------------------------------------|----------------|-----------------|----------|
|      |         |         |     |             |       |          | GENERAL TOLERANCE<br>.X ±0.30<br>.XX ±0.20<br>.XXX ±0.10 | 东莞市翰皓精密电子有限公司<br>DONGGUAN HANHAO PRECISION ELECTRONIC CO.,LTD |       |       |            | PART NO. M1801                     |                |                 |          |
|      |         |         |     |             |       |          |                                                          | APPROVAL                                                      | CHECK | DRAWN | DATE       | TITLE<br>Product Assembly Drawings |                |                 |          |
| DATE | OLD REV | NEW REV | ECN | DESCRIPTION | CHECK | APPROVAL | PROJECT                                                  | XU                                                            | L.Q.F | LI    | 2025/07/24 | UNIT<br>MM                         | SCALE<br>1 : 1 | NUMBER<br>A-198 | REV<br>A |