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## MJ2 SERIES MICRO SWITCHES

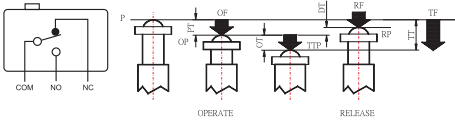
### FEATURES/功能

- Regular or sealed operating heads. / 一般或密封式頭部
- Momentary contacts. / 接點敏捷
- Completely sealed constructure. / 輔助密封式結構
- Wide choice of heads and actuators. / 多種不同的頭及連桿
- Plastic(Standard) or phenolic housing. / 塑膠(標準型)或電木外殼
- Regular or light operating force. / 一般型或輕動作力型
- Temperature range +5°F to +175°F (-15°C to +80°C). / 適用溫度



MJ2-1308

### CIRCUITRY/電氣回路



OF : Operating Force  
RF : Releasing Force  
TF : Total Force  
FP : Free Position  
OP : Operating Position  
RP : Releasing Position

TTP : Total Travel Position  
PT : Pretravel  
OT : Overtravel  
DT : Travel Differential  
TT : Total Travel

### CHARACTERISTICS/特性

|                               |  |
|-------------------------------|--|
| Operating speed               | 0.01mm to 1m/sec   |
| Operating frequency           | Mechanically: 240 operations/min.<br>Electrically: 20 operations/min.  |
| Contact resistance            | 15m Ω max. (initial)   |
| Insulation resistance         | 100M Ω min. (at 500 VDC)   |
| Dielectric strength           | 1,000 VAC, 50/60 Hz for 1 minute between non-continuous terminals<br>2,000 VAC, 50/60 Hz for 1 minute between current-carry part and ground          |
| Vibration                     | Malfunction durability: 10 to 55Hz<br>1.5mm double amplitude   |
| Shock                         | Mechanical durability:<br>Approx. 1,000m/sec <sup>2</sup> (approx. 100G's)<br>Malfunction durability: Approx. 300 m/sec <sup>2</sup> (approx. 30G's) |
| Ambient operating temperature | General purpose type: -25° to + 80° C<br>Sealed type: -15° to 80° C  |
| Humidity                      | General purpose type: 85% RH max<br>Sealed type: 95% RH  |
| Service life                  | Mechanically:<br>20,000,000 operations min<br>Electrically:<br>500,000 operations min.   |



MJ2-1317



MJ2-1307-P



MJ2-1300



MJ2-1306-P



MJ2-1513



MJ2-1307



MJ2-1305

### RATING/額定

|        |                |
|--------|----------------|
| 15A    | 125 or 250V AC |
| 1/8 HP | 125 V AC       |
| 1/4 HP | 250 V AC       |
| 1/2 A  | 125 V DC       |
| 1/4 A  | 250 V DC       |

MJ2-1308-P



MJ2-1515



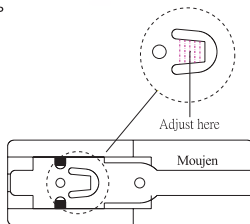
MJ2-1308R



MJ2-1306

### REMARK

- OIL TIGHT SERIES**  
MJ2-1315 MJ2-1317  
MJ2-1513 MJ2-1514 MJ2-1515  
MJ2-1711 MJ2-1712 MJ2-1713 MJ2-1714
- SENSITIVITY ADJUSTABLE SERIES**  
MJ2-1513 MJ2-1514 MJ2-1543 MJ2-1544  
MJ2-1701 MJ2-1702 MJ2-1703 MJ2-1704  
MJ2-1711 MJ2-1712 MJ2-1713 MJ2-1714



MJ2-1315

| DIMENSIONS (mm) | OPERATING CHARACTERISTICS   | DIMENSIONS (mm) | OPERATING CHARACTERISTICS |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|-----------------|---|-----------------|---------------------------|-----------|--------|----------|------|--------|------|--|--------|-------|--|--------|--------|--|--------|--------|--|--------|--|--|----|------------|--|--|---|--|----------|--------|------|--------|------|--------|-------|--------|-------|--------|--------|--------|--------|----|------------|
|                 | <p>● MJ2-1300</p> <table border="1"> <tr> <td></td> <td>MJ2-1300</td> <td>MJ2-1300L</td> </tr> <tr> <td>OF MAX</td> <td>250-450g</td> <td>200g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> <td></td> </tr> <tr> <td>PT MAX</td> <td>0,5mm</td> <td></td> </tr> <tr> <td>OT MIN</td> <td>0,13mm</td> <td></td> </tr> <tr> <td>DT MAX</td> <td>0,05mm</td> <td></td> </tr> <tr> <td>FP MAX</td> <td></td> <td></td> </tr> <tr> <td>OP</td> <td>15,9±0,4mm</td> <td></td> </tr> </table> |                 | MJ2-1300                  | MJ2-1300L | OF MAX | 250-450g | 200g | RF MIN | 114g |  | PT MAX | 0,5mm |  | OT MIN | 0,13mm |  | DT MAX | 0,05mm |  | FP MAX |  |  | OP | 15,9±0,4mm |  |  | <p>● MJ2-1315</p> <table border="1"> <tr> <td></td> <td>MJ2-1315</td> </tr> <tr> <td>OF MAX</td> <td>540g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> </tr> <tr> <td>PT MAX</td> <td>1,9mm</td> </tr> <tr> <td>OT MIN</td> <td>1,6mm</td> </tr> <tr> <td>DT MAX</td> <td>0,06mm</td> </tr> <tr> <td>FP MAX</td> <td></td> </tr> <tr> <td>OP</td> <td>28,2±0,5mm</td> </tr> </table>     |  | MJ2-1315 | OF MAX | 540g | RF MIN | 114g | PT MAX | 1,9mm | OT MIN | 1,6mm | DT MAX | 0,06mm | FP MAX |        | OP | 28,2±0,5mm |
|                 | MJ2-1300  | MJ2-1300L       |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 250-450g  | 200g            |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 0,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 0,13mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,05mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 15,9±0,4mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | MJ2-1315  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 540g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 1,9mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 1,6mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,06mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 28,2±0,5mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | <p>● MJ2-1305</p> <table border="1"> <tr> <td></td> <td>MJ2-1305</td> <td>MJ2-1305L</td> </tr> <tr> <td>OF MAX</td> <td>250-450g</td> <td>200g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> <td></td> </tr> <tr> <td>PT MAX</td> <td>0,5mm</td> <td></td> </tr> <tr> <td>OT MIN</td> <td>1,6mm</td> <td></td> </tr> <tr> <td>DT MAX</td> <td>0,05mm</td> <td></td> </tr> <tr> <td>FP MAX</td> <td></td> <td></td> </tr> <tr> <td>OP</td> <td>28,2±0,5mm</td> <td></td> </tr> </table>  |                 | MJ2-1305                  | MJ2-1305L | OF MAX | 250-450g | 200g | RF MIN | 114g |  | PT MAX | 0,5mm |  | OT MIN | 1,6mm  |  | DT MAX | 0,05mm |  | FP MAX |  |  | OP | 28,2±0,5mm |  |  | <p>● MJ2-1317</p> <table border="1"> <tr> <td></td> <td>MJ2-1317</td> </tr> <tr> <td>OF MAX</td> <td>540g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> </tr> <tr> <td>PT MAX</td> <td>2,4mm</td> </tr> <tr> <td>OT MIN</td> <td>3,5mm</td> </tr> <tr> <td>DT MAX</td> <td>0,06mm</td> </tr> <tr> <td>FP MAX</td> <td></td> </tr> <tr> <td>OP</td> <td>38,1±1,2mm</td> </tr> </table>     |  | MJ2-1317 | OF MAX | 540g | RF MIN | 114g | PT MAX | 2,4mm | OT MIN | 3,5mm | DT MAX | 0,06mm | FP MAX |        | OP | 38,1±1,2mm |
|                 | MJ2-1305  | MJ2-1305L       |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 250-450g  | 200g            |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 0,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 1,6mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,05mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 28,2±0,5mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | MJ2-1317  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 540g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 2,4mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 3,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,06mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 38,1±1,2mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | <p>● MJ2-1306</p> <table border="1"> <tr> <td></td> <td>MJ2-1306</td> <td>MJ2-1306L</td> </tr> <tr> <td>OF MAX</td> <td>250-450g</td> <td>200g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> <td></td> </tr> <tr> <td>PT MAX</td> <td>0,5mm</td> <td></td> </tr> <tr> <td>OT MIN</td> <td>1,6mm</td> <td></td> </tr> <tr> <td>DT MAX</td> <td>0,05mm</td> <td></td> </tr> <tr> <td>FP MAX</td> <td></td> <td></td> </tr> <tr> <td>OP</td> <td>21,5±0,5mm</td> <td></td> </tr> </table>  |                 | MJ2-1306                  | MJ2-1306L | OF MAX | 250-450g | 200g | RF MIN | 114g |  | PT MAX | 0,5mm |  | OT MIN | 1,6mm  |  | DT MAX | 0,05mm |  | FP MAX |  |  | OP | 21,5±0,5mm |  |  | <p>● MJ2-1513</p> <table border="1"> <tr> <td></td> <td>MJ2-1513</td> </tr> <tr> <td>OF MAX</td> <td>540g</td> </tr> <tr> <td>RF MIN</td> <td>50g</td> </tr> <tr> <td>PT MAX</td> <td>2,7mm</td> </tr> <tr> <td>OT MIN</td> <td>2,4mm</td> </tr> <tr> <td>DT MAX</td> <td>0,8mm</td> </tr> <tr> <td>FP MAX</td> <td>43,6mm</td> </tr> <tr> <td>OP</td> <td>41,3±0,8mm</td> </tr> </table> |  | MJ2-1513 | OF MAX | 540g | RF MIN | 50g  | PT MAX | 2,7mm | OT MIN | 2,4mm | DT MAX | 0,8mm  | FP MAX | 43,6mm | OP | 41,3±0,8mm |
|                 | MJ2-1306  | MJ2-1306L       |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 250-450g  | 200g            |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 0,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 1,6mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,05mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 21,5±0,5mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | MJ2-1513  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 540g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 50g   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 2,7mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 2,4mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,8mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          | 43,6mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 41,3±0,8mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | <p>● MJ2-1307</p> <table border="1"> <tr> <td></td> <td>MJ2-1307</td> <td>MJ2-1307L</td> </tr> <tr> <td>OF MAX</td> <td>250-450g</td> <td>200g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> <td></td> </tr> <tr> <td>PT MAX</td> <td>0,5mm</td> <td></td> </tr> <tr> <td>OT MIN</td> <td>5,5mm</td> <td></td> </tr> <tr> <td>DT MAX</td> <td>0,05mm</td> <td></td> </tr> <tr> <td>FP MAX</td> <td></td> <td></td> </tr> <tr> <td>OP</td> <td>38,1±0,8mm</td> <td></td> </tr> </table>  |                 | MJ2-1307                  | MJ2-1307L | OF MAX | 250-450g | 200g | RF MIN | 114g |  | PT MAX | 0,5mm |  | OT MIN | 5,5mm  |  | DT MAX | 0,05mm |  | FP MAX |  |  | OP | 38,1±0,8mm |  |  | <p>● MJ2-1514</p> <table border="1"> <tr> <td></td> <td>MJ2-1514</td> </tr> <tr> <td>OF MAX</td> <td>150g</td> </tr> <tr> <td>RF MIN</td> <td>25g</td> </tr> <tr> <td>PT MAX</td> <td>6,4mm</td> </tr> <tr> <td>OT MIN</td> <td>4,0mm</td> </tr> <tr> <td>DT MAX</td> <td>1,6mm</td> </tr> <tr> <td>FP MAX</td> <td>47,2mm</td> </tr> <tr> <td>OP</td> <td>41,3±0,8mm</td> </tr> </table> |  | MJ2-1514 | OF MAX | 150g | RF MIN | 25g  | PT MAX | 6,4mm | OT MIN | 4,0mm | DT MAX | 1,6mm  | FP MAX | 47,2mm | OP | 41,3±0,8mm |
|                 | MJ2-1307  | MJ2-1307L       |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 250-450g  | 200g            |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 0,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 5,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,05mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 38,1±0,8mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | MJ2-1514  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 150g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 25g   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 6,4mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 4,0mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 1,6mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          | 47,2mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 41,3±0,8mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | <p>● MJ2-1308</p> <table border="1"> <tr> <td></td> <td>MJ2-1308</td> <td>MJ2-1308L</td> </tr> <tr> <td>OF MAX</td> <td>250-450g</td> <td>200g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> <td></td> </tr> <tr> <td>PT MAX</td> <td>0,5mm</td> <td></td> </tr> <tr> <td>OT MIN</td> <td>3,58mm</td> <td></td> </tr> <tr> <td>DT MAX</td> <td>0,05mm</td> <td></td> </tr> <tr> <td>FP MAX</td> <td></td> <td></td> </tr> <tr> <td>OP</td> <td>49,7±1,2mm</td> <td></td> </tr> </table> |                 | MJ2-1308                  | MJ2-1308L | OF MAX | 250-450g | 200g | RF MIN | 114g |  | PT MAX | 0,5mm |  | OT MIN | 3,58mm |  | DT MAX | 0,05mm |  | FP MAX |  |  | OP | 49,7±1,2mm |  |  | <p>● MJ2-1515</p> <table border="1"> <tr> <td></td> <td>MJ2-1515</td> </tr> <tr> <td>OF MAX</td> <td>540g</td> </tr> <tr> <td>RF MIN</td> <td>114g</td> </tr> <tr> <td>PT MAX</td> <td>2,3mm</td> </tr> <tr> <td>OT MIN</td> <td>1,6mm</td> </tr> <tr> <td>DT MAX</td> <td>0,06mm</td> </tr> <tr> <td>FP MAX</td> <td></td> </tr> <tr> <td>OP</td> <td>28,2±0,5mm</td> </tr> </table>     |  | MJ2-1515 | OF MAX | 540g | RF MIN | 114g | PT MAX | 2,3mm | OT MIN | 1,6mm | DT MAX | 0,06mm | FP MAX |        | OP | 28,2±0,5mm |
|                 | MJ2-1308  | MJ2-1308L       |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 250-450g  | 200g            |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 0,5mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 3,58mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,05mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 49,7±1,2mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
|                 | MJ2-1515  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OF MAX          | 540g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| RF MIN          | 114g  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| PT MAX          | 2,3mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OT MIN          | 1,6mm   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| DT MAX          | 0,06mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| FP MAX          |   |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |
| OP              | 28,2±0,5mm  |                 |                           |           |        |          |      |        |      |  |        |       |  |        |        |  |        |        |  |        |  |  |    |            |  |  |   |  |          |        |      |        |      |        |       |        |       |        |        |        |        |    |            |

## ▶ MJ2 SERIES MICRO SWITCHES

### ◆ ORDER GUIDE

● Plastic body (Standard type): 塑膠外殼 (標準型)

|                           |          |          |          |          |          |                           |          |          |
|---------------------------|----------|----------|----------|----------|----------|---------------------------|----------|----------|
| MJ2-1280                  | MJ2-1300 | MJ2-1305 | MJ2-1306 | MJ2-1307 | MJ2-1308 | MJ2-1308R                 | MJ2-1543 | MJ2-1544 |
| MJ2-1578                  | MJ2-1701 | MJ2-1702 | MJ2-1703 | MJ2-1704 | MJ2-1315 | MJ2-1317                  | MJ2-1513 | MJ2-1514 |
| MJ2-1515                  | MJ2-1711 | MJ2-1712 | MJ2-1713 | MJ2-1714 | MJ2-CB2  | MJ2-1703-F (metal roller) |          |          |
| MJ2-1704-F (metal roller) |          |          |          |          |          |                           |          |          |

● Phenolic body (Custom made): 電木外殼 (訂製品)

|           |           |           |           |           |             |             |           |           |
|-----------|-----------|-----------|-----------|-----------|-------------|-------------|-----------|-----------|
| MJ2-1280P | MJ2-1300P | MJ2-1305P | MJ2-1306P | MJ2-1307P | MJ2-1308P   | MJ2-1308RP  | MJ2-1543P | MJ2-1544P |
| MJ2-1578P | MJ2-1701P | MJ2-1702P | MJ2-1703P | MJ2-1704P | MJ2-1315P   | MJ2-1317P   | MJ2-1513P | MJ2-1514P |
| MJ2-1515P | MJ2-1711P | MJ2-1712P | MJ2-1713P | MJ2-1714P | MJ2-1703P-F | MJ2-1704P-F |           |           |

● Plastic body, Light force (Custom made): 塑膠殼, 輕型 (訂製品)

|           |           |           |           |           |           |            |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
| MJ2-1280L | MJ2-1300L | MJ2-1305L | MJ2-1306L | MJ2-1307L | MJ2-1308L | MJ2-1308RL | MJ2-1543L | MJ2-1544L |
| MJ2-1578L | MJ2-1701L | MJ2-1702L | MJ2-1703L | MJ2-1704L |           |            |           |           |

● Phenolic body, Light force (Custom made): 電木殼, 輕型 (訂製品)

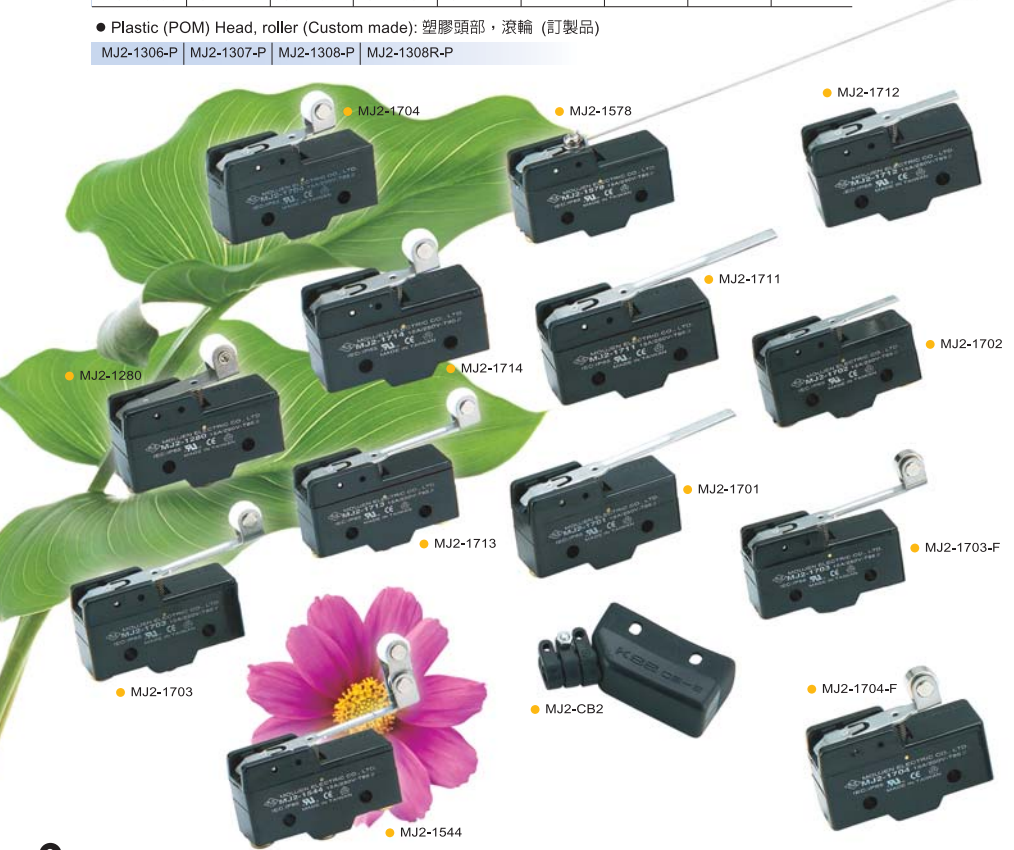
|            |            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| MJ2-1280PL | MJ2-1300PL | MJ2-1305PL | MJ2-1306PL | MJ2-1307PL | MJ2-1308PL | MJ2-1308PL | MJ2-1543PL | MJ2-1544PL |
| MJ2-1578PL | MJ2-1701PL | MJ2-1702PL | MJ2-1703PL | MJ2-1704PL |            |            |            |            |

● Plastic (POM) Head, roller (Custom made): 塑膠頭部, 滾輪 (訂製品)

|            |            |            |             |
|------------|------------|------------|-------------|
| MJ2-1306-P | MJ2-1307-P | MJ2-1308-P | MJ2-1308R-P |
|------------|------------|------------|-------------|



● MJ2-1543



● MJ2-1704

● MJ2-1578

● MJ2-1712

● MJ2-1711

● MJ2-1702

● MJ2-1714

● MJ2-1701

● MJ2-1703-F

● MJ2-1703

● MJ2-CB2

● MJ2-1704-F

● MJ2-1544

| DIMENSIONS (mm)   | OPERATING CHARACTERISTICS  | DIMENSIONS (mm) | OPERATING CHARACTERISTICS |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
|-------------------|--|-----------------|---------------------------|--------|------|------|--------|-----|--|--------|-------|--|--------|-------|--|--------|--------|--|--------|--------|--|----|------------|--|-------------------|---|----------|-----------|--------|------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------------|--|--------|--------|--|----|------------|--|
| <p>● MJ2-1543</p> | <table border="1"> <tr><td>MJ2-1543</td><td>MJ2-1543L</td></tr> <tr><td>OF MAX</td><td>170g</td><td>120g</td></tr> <tr><td>RF MIN</td><td>42g</td><td></td></tr> <tr><td>PT MAX</td><td>2,7mm</td><td></td></tr> <tr><td>OT MIN</td><td>2,4mm</td><td></td></tr> <tr><td>DT MAX</td><td>0,51mm</td><td></td></tr> <tr><td>FP MAX</td><td>43,6mm</td><td></td></tr> <tr><td>OP</td><td>41,3±0,8mm</td><td></td></tr> </table> | MJ2-1543        | MJ2-1543L                 | OF MAX | 170g | 120g | RF MIN | 42g |  | PT MAX | 2,7mm |  | OT MIN | 2,4mm |  | DT MAX | 0,51mm |  | FP MAX | 43,6mm |  | OP | 41,3±0,8mm |  | <p>● MJ2-1704</p> | <table border="1"> <tr><td>MJ2-1704</td><td>MJ2-1704L</td></tr> <tr><td>OF MAX</td><td>160g</td><td>110g</td></tr> <tr><td>RF MIN</td><td>42g</td><td></td></tr> <tr><td>PT MAX</td><td>3,5mm</td><td></td></tr> <tr><td>OT MIN</td><td>2,4mm</td><td></td></tr> <tr><td>DT MAX</td><td>0,5mm</td><td></td></tr> <tr><td>FP MAX</td><td>34,5mm</td><td></td></tr> <tr><td>OP</td><td>30,2±0,8mm</td><td></td></tr> </table> | MJ2-1704 | MJ2-1704L | OF MAX | 160g | 110g   | RF MIN | 42g    |       | PT MAX | 3,5mm |        | OT MIN | 2,4mm  |        | DT MAX | 0,5mm      |  | FP MAX | 34,5mm |  | OP | 30,2±0,8mm |  |
| MJ2-1543          | MJ2-1543L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 170g   | 120g            |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 42g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 2,7mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 2,4mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 0,51mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 43,6mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 41,3±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| MJ2-1704          | MJ2-1704L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 160g   | 110g            |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 42g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 3,5mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 2,4mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 0,5mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 34,5mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 30,2±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| <p>● MJ2-1544</p> | <table border="1"> <tr><td>MJ2-1544</td><td>MJ2-1544L</td></tr> <tr><td>OF MAX</td><td>110g</td><td>70g</td></tr> <tr><td>RF MIN</td><td>25g</td><td></td></tr> <tr><td>PT MAX</td><td>6,4mm</td><td></td></tr> <tr><td>OT MIN</td><td>4,0mm</td><td></td></tr> <tr><td>DT MAX</td><td>1,6mm</td><td></td></tr> <tr><td>FP MAX</td><td>47,2mm</td><td></td></tr> <tr><td>OP</td><td>41,3±0,8mm</td><td></td></tr> </table>   | MJ2-1544        | MJ2-1544L                 | OF MAX | 110g | 70g  | RF MIN | 25g |  | PT MAX | 6,4mm |  | OT MIN | 4,0mm |  | DT MAX | 1,6mm  |  | FP MAX | 47,2mm |  | OP | 41,3±0,8mm |  | <p>● MJ2-1711</p> | <table border="1"> <tr><td>MJ2-1711</td><td></td></tr> <tr><td>OF MAX</td><td>100g</td></tr> <tr><td>RF MIN</td><td>14g</td></tr> <tr><td>PT MAX</td><td>10mm</td></tr> <tr><td>OT MIN</td><td>5,8mm</td></tr> <tr><td>DT MAX</td><td>2,0mm</td></tr> <tr><td>FP MAX</td><td>28,2mm</td></tr> <tr><td>OP</td><td>19±0,8mm</td></tr> </table>  | MJ2-1711 |           | OF MAX | 100g | RF MIN | 14g    | PT MAX | 10mm  | OT MIN | 5,8mm | DT MAX | 2,0mm  | FP MAX | 28,2mm | OP     | 19±0,8mm   |  |        |        |  |    |            |  |
| MJ2-1544          | MJ2-1544L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 110g   | 70g             |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 25g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 6,4mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 4,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 1,6mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 47,2mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 41,3±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| MJ2-1711          |  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 100g   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 14g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 10mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 5,8mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 2,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 28,2mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 19±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| <p>● MJ2-1578</p> | <table border="1"> <tr><td>MJ2-1578</td><td>MJ2-1578L</td></tr> <tr><td>OF MAX</td><td>10g</td><td>5g</td></tr> <tr><td>RF MIN</td><td>5g</td><td></td></tr> <tr><td>PT MAX</td><td>10mm</td><td></td></tr> <tr><td>OT MIN</td><td>6mm</td><td></td></tr> <tr><td>DT MAX</td><td>3mm</td><td></td></tr> <tr><td>FP MAX</td><td></td><td></td></tr> <tr><td>OP</td><td>20±1mm</td><td></td></tr> </table>                     | MJ2-1578        | MJ2-1578L                 | OF MAX | 10g  | 5g   | RF MIN | 5g  |  | PT MAX | 10mm  |  | OT MIN | 6mm   |  | DT MAX | 3mm    |  | FP MAX |        |  | OP | 20±1mm     |  | <p>● MJ2-1712</p> | <table border="1"> <tr><td>MJ2-1712</td><td></td></tr> <tr><td>OF MAX</td><td>150g</td></tr> <tr><td>RF MIN</td><td>23g</td></tr> <tr><td>PT MAX</td><td>7,9mm</td></tr> <tr><td>OT MIN</td><td>3,0mm</td></tr> <tr><td>DT MAX</td><td>1,5mm</td></tr> <tr><td>FP MAX</td><td>26,2mm</td></tr> <tr><td>OP</td><td>19±0,8mm</td></tr> </table>   | MJ2-1712 |           | OF MAX | 150g | RF MIN | 23g    | PT MAX | 7,9mm | OT MIN | 3,0mm | DT MAX | 1,5mm  | FP MAX | 26,2mm | OP     | 19±0,8mm   |  |        |        |  |    |            |  |
| MJ2-1578          | MJ2-1578L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 10g  | 5g              |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 5g   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 10mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 6mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 3mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            |  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 20±1mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| MJ2-1712          |  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 150g   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 23g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 7,9mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 3,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 1,5mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 26,2mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 19±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| <p>● MJ2-1701</p> | <table border="1"> <tr><td>MJ2-1701</td><td>MJ2-1701L</td></tr> <tr><td>OF MAX</td><td>70g</td><td>40g</td></tr> <tr><td>RF MIN</td><td>14g</td><td></td></tr> <tr><td>PT MAX</td><td>10mm</td><td></td></tr> <tr><td>OT MIN</td><td>5,6mm</td><td></td></tr> <tr><td>DT MAX</td><td>1,27mm</td><td></td></tr> <tr><td>FP MAX</td><td>26,2mm</td><td></td></tr> <tr><td>OP</td><td>19±0,8mm</td><td></td></tr> </table>      | MJ2-1701        | MJ2-1701L                 | OF MAX | 70g  | 40g  | RF MIN | 14g |  | PT MAX | 10mm  |  | OT MIN | 5,6mm |  | DT MAX | 1,27mm |  | FP MAX | 26,2mm |  | OP | 19±0,8mm   |  | <p>● MJ2-1713</p> | <table border="1"> <tr><td>MJ2-1713</td><td></td></tr> <tr><td>OF MAX</td><td>130g</td></tr> <tr><td>RF MIN</td><td>21g</td></tr> <tr><td>PT MAX</td><td>7,1mm</td></tr> <tr><td>OT MIN</td><td>4,0mm</td></tr> <tr><td>DT MAX</td><td>1,6mm</td></tr> <tr><td>FP MAX</td><td>36,5mm</td></tr> <tr><td>OP</td><td>30,2±0,8mm</td></tr> </table>   | MJ2-1713 |           | OF MAX | 130g | RF MIN | 21g    | PT MAX | 7,1mm | OT MIN | 4,0mm | DT MAX | 1,6mm  | FP MAX | 36,5mm | OP     | 30,2±0,8mm |  |        |        |  |    |            |  |
| MJ2-1701          | MJ2-1701L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 70g  | 40g             |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 14g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 10mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 5,6mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 1,27mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 26,2mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 19±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| MJ2-1713          |  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 130g   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 21g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 7,1mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 4,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 1,6mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 36,5mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 30,2±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| <p>● MJ2-1702</p> | <table border="1"> <tr><td>MJ2-1702</td><td>MJ2-1702L</td></tr> <tr><td>OF MAX</td><td>120g</td><td>80g</td></tr> <tr><td>RF MIN</td><td>20g</td><td></td></tr> <tr><td>PT MAX</td><td>7,9mm</td><td></td></tr> <tr><td>OT MIN</td><td>3,0mm</td><td></td></tr> <tr><td>DT MAX</td><td>1,0mm</td><td></td></tr> <tr><td>FP MAX</td><td>26,2mm</td><td></td></tr> <tr><td>OP</td><td>19±0,8mm</td><td></td></tr> </table>     | MJ2-1702        | MJ2-1702L                 | OF MAX | 120g | 80g  | RF MIN | 20g |  | PT MAX | 7,9mm |  | OT MIN | 3,0mm |  | DT MAX | 1,0mm  |  | FP MAX | 26,2mm |  | OP | 19±0,8mm   |  | <p>● MJ2-1714</p> | <table border="1"> <tr><td>MJ2-1714</td><td></td></tr> <tr><td>OF MAX</td><td>200g</td></tr> <tr><td>RF MIN</td><td>42g</td></tr> <tr><td>PT MAX</td><td>3,5mm</td></tr> <tr><td>OT MIN</td><td>2,4mm</td></tr> <tr><td>DT MAX</td><td>0,5mm</td></tr> <tr><td>FP MAX</td><td>34,5mm</td></tr> <tr><td>OP</td><td>30,2±0,8mm</td></tr> </table>   | MJ2-1714 |           | OF MAX | 200g | RF MIN | 42g    | PT MAX | 3,5mm | OT MIN | 2,4mm | DT MAX | 0,5mm  | FP MAX | 34,5mm | OP     | 30,2±0,8mm |  |        |        |  |    |            |  |
| MJ2-1702          | MJ2-1702L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 120g   | 80g             |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 20g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 7,9mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 3,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 1,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 26,2mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 19±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| MJ2-1714          |  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 200g   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 42g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 3,5mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 2,4mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 0,5mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 34,5mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 30,2±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| <p>● MJ2-1703</p> | <table border="1"> <tr><td>MJ2-1703</td><td>MJ2-1703L</td></tr> <tr><td>OF MAX</td><td>100g</td><td>60g</td></tr> <tr><td>RF MIN</td><td>21g</td><td></td></tr> <tr><td>PT MAX</td><td>7,1mm</td><td></td></tr> <tr><td>OT MIN</td><td>4,0mm</td><td></td></tr> <tr><td>DT MAX</td><td>1,6mm</td><td></td></tr> <tr><td>FP MAX</td><td>36,5mm</td><td></td></tr> <tr><td>OP</td><td>30,2±0,8mm</td><td></td></tr> </table>   | MJ2-1703        | MJ2-1703L                 | OF MAX | 100g | 60g  | RF MIN | 21g |  | PT MAX | 7,1mm |  | OT MIN | 4,0mm |  | DT MAX | 1,6mm  |  | FP MAX | 36,5mm |  | OP | 30,2±0,8mm |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| MJ2-1703          | MJ2-1703L  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OF MAX            | 100g   | 60g             |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| RF MIN            | 21g  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| PT MAX            | 7,1mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OT MIN            | 4,0mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| DT MAX            | 1,6mm  |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| FP MAX            | 36,5mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |
| OP                | 30,2±0,8mm   |                 |                           |        |      |      |        |     |  |        |       |  |        |       |  |        |        |  |        |        |  |    |            |  |                   |   |          |           |        |      |        |        |        |       |        |       |        |        |        |        |        |            |  |        |        |  |    |            |  |