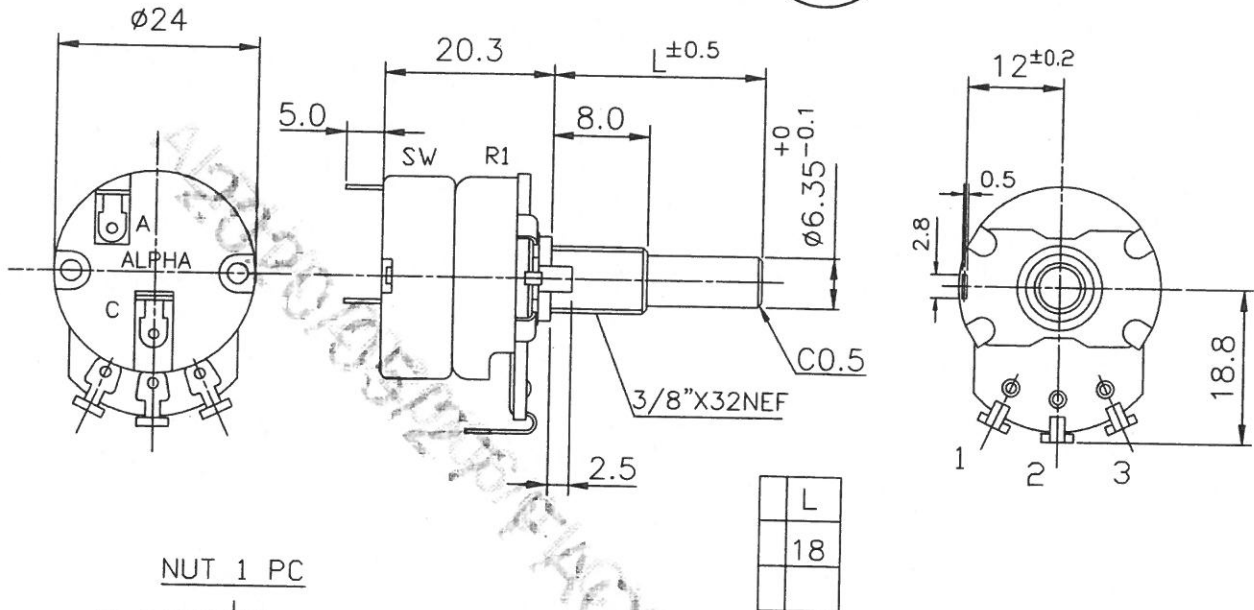
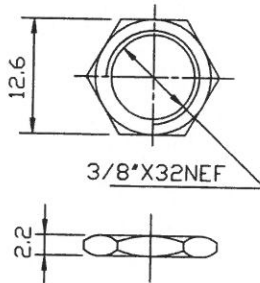


文管中心  
2020.05.27  
發行章



NUT 1 PC



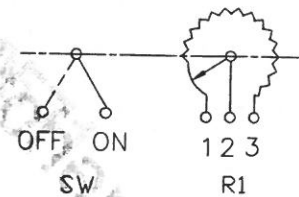
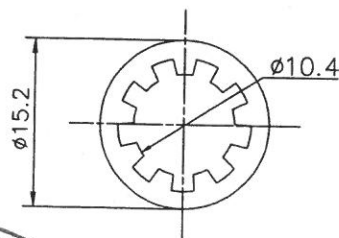
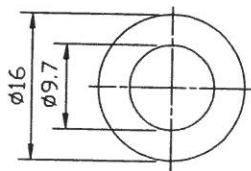
TERMIINAL DETAIL



● 300° ROTATION  
MONO UNIT  
(SW ROTARY SWITCH)  
S.P.S.T. A.C 125V 1A

TEETH WASHER 1 PC t=0.5

WASHER 1 PC t=0.4



CIRCUIT




|  |  |  |  |  |  |    |  |
|--|--|--|--|--|--|----|--|
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  |    |  |
|  |  |  |  |  |  | </ |  |

|                        |  |      |      |
|------------------------|--|------|------|
| CUSTOMER'S NAME        |  | NOTE | DATE |
| CUSTOMER'S PART NAME   |  |      |      |
| CUSTOMER'S DRAWING NO. |  |      |      |

| 1. MECHANICAL SPECIFICATION       |  |                    | 2. ELECTRICAL SPECIFICATION                     |                       |                        |
|-----------------------------------|--|--------------------|---|-----------------------|------------------------|
| 1. OUTSIDE DIMENSION              | append fig.                                    |                    | 1. OVERALL RESISTANCE & TOLERANCE               | terminal 1-3          | 1M Ω± 30 %             |
| 2. TOTAL ROTATION ANGLE           | degree   | 300 ±5°            | 2. TAP RESISTANCE & TOLERANCE                   | terminal 1-4          | Ω± %                   |
| 3. TOTAL TRAVEL STROKE            | mm   | ±0.5               | 3. RATED WATTAGE                                | temp 0~50°C           | 0.25 W                 |
| 4. NUT WIRING STRENGTH            | twisting moment                                | less than 9 kgf.cm | 4. MAXIMUM WORKING VOLTAGE                      |                       | 250 V                  |
| 5. SCREW TIGHTENING FORCE         | torsional moment                               | less than kgf.cm   | 5. RESISTANCE TAPER MEASURING POINT & TOLERANCE |                       | 50 %point<br>10 ~ 25 % |
| 6. ROTATION TORQUE                | speed 60 deg/sec.                              | 20~200 gf.cm       | 6. RESIDUAL RESISTANCE                          | terminal 1-2/2-3 side | less than 30/50 Ω      |
| 7. SLIDING FORCE                  | speed 20mm/sec                                 | gf.cm              | 7. TAP RESIDUAL RESISTANCE                      | terminal 4 side       | less than 100 Ω        |
| 8. SHAFT LEVER STRENGTH           | pulling pushing                                | more than kgf.cm   | 8. SLIDE NOISE                                  | speed 60° / 1 sec     | less than 47 mV        |
| 9. SHAFT LEVER WOBBLE             | within mm (bending moment gf.cm)               |                    | 9. INSULATION RESISTANCE                        | more than 100 MΩ(DC   | 500 V)                 |
| 10. SHAFT LEVER STOP STRENGTH     | more than 6 kgf.cm (static load) / 60 sec      |                    | 10. WITHSTAND VOLTAGE                           | AC 500 V              | 1 minute               |
| 11. TERMINAL STRENGTH             | more than 500 gf.cm / 10 ± 1 sec               |                    | 11. TRACKING ERROR                              |                       |                        |
|                                   | soldering heat 350±5°C/3sec. 200gf.cm/10 ±1sec |                    | 12. SWITCH CONTACT RESISTANCE                   | MΩ                    | less than 30 mΩ        |
|                                   | resist change within ± 2%                      |                    | 13. SWITCH RATING                               |                       | AC125V , 1A            |
| 12. CLICK POSITION & TORQUE       | gf.cm  |                    | 3. USABLE TEMPERATURE RANGE: from -10°C to 70°C |                       |                        |
| 13. SWITCH WORKING ANGLE (STROKE) | degree (mm)                                    | 50°±10°            | 4. VR LIFE 15,000 ± 1000 TIMES                  |                       |                        |
| 14. SWITCH WORKING TORQUE (FORCE) | gf.cm  | 800gf.cm           | RESISTANCE CHANGE: within ± 20 %                |                       |                        |
| 15. SWITCH CIRCUIT                |  | S.P.S.T            | SLIDE NOISE : less than 200 mV                  |                       |                        |

SHAFT

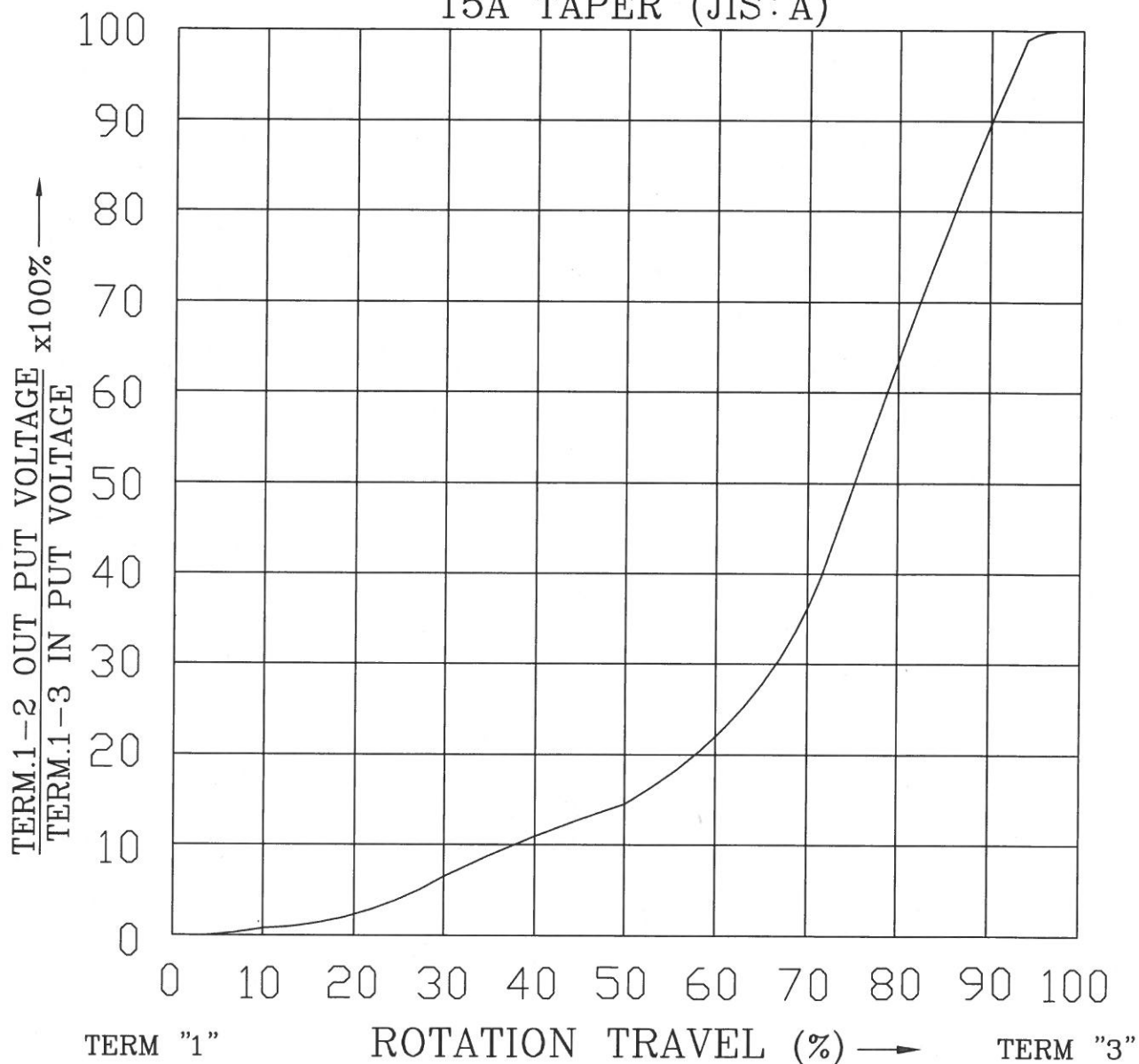
| MATERIAL | ANGLE OF FLAT OR SLOT   | DIMENSION |    |   |   |
|----------|---|-----------|----|---|---|
|          |  | M         | L  | F | T |
|          |   |           | 10 |   |   |

|                             |             |
|-----------------------------|-------------|
| MODEL NAME                  | DRAWING NO. |
| RV24A01F-10D4-18R1-A1M-10K3 |             |

|               |     |
|---------------|-----|
| REFERENCE NO. | REV |
|               |     |

# STANDARD RESISTANCE TAPER

15A TAPER (JIS: A)



|                              |      |             |       |                                 |                                 |                                 |             |
|------------------------------|------|-------------|-------|---------------------------------|---------------------------------|---------------------------------|-------------|
|                              |      |             |       |                                 |                                 |                                 |             |
|                              |      |             |       |                                 |                                 |                                 |             |
|                              |      |             |       |                                 |                                 |                                 |             |
|                              |      |             |       |                                 |                                 |                                 |             |
| NO.                          | DATE | DESCRIPTION |       |                                 | MODEL NAME                      |                                 |             |
| TOL. UNLESS OTHERWISE STATED |      | DIMENSION   | SCALE | DRAWN BY                        | CHECKED BY                      | APPROVED BY                     | DRAWING NO. |
| <u>less than 10 ±0.3</u>     |      | mm          |       | <div>何<br/>90.8.21<br/>建志</div> | <div>王<br/>90.8.21<br/>茂松</div> | <div>王<br/>90.8.21<br/>茂松</div> |             |
| <u>above 10 ~ 30 ±0.5</u>    |      |             |       |                                 |                                 |                                 |             |
| <u>above 30 ~100 ±1.0</u>    |      |             |       |                                 |                                 |                                 |             |
| <u>above ±5°</u>             |      |             |       |                                 |                                 |                                 |             |

## 可變電阻無鉛焊錫與保管條件共通規格書

### Common Specification of Lead-Free Soldering and Storage conditions for Potentiometers

以下焊錫條件以可變電阻置於單層 1.6mm 厚度之印刷電路板上測試為基準。

The specification below is based on testing results of 1.6mm thickness single layer printed circuit board.

#### 1. 手工焊錫條件：

For Manual Soldering：

1-1 操作溫度最高 350°C，操作時間 3 秒以內。

To be performed within 3 seconds at 350°C or below.

#### 2. 自動或半自動機台焊錫條件：

For Automated or Semi-Automated Soldering Equipments:

2-1 使用發泡式且比重 0.82 以上的助焊劑，發泡高度以印刷電路板厚度一半為標準，且助劑不能流入可變電阻基板表面及印刷電路板表面。

Flux of 0.82 specific gravity, applied by foam fluxer, shall be used. Foam head shall be limited to the height which is half thickness of printed circuit board to be soldered. No flux should be allowed to run up onto resistive element board of potentiometer and the surface of printed circuit board.

2-2 預熱時間不超過兩分鐘，焊錫接面（即印刷電路板底）最高預熱溫度不超過 100°C。

Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface of PCB) shall be settled within 100°C.

2-3 焊錫過程機台設定溫度在 260°C 以下、4 秒以內。

Solder Dipping is to be performed within 4 seconds at 260°C or below.

3. 若回轉型電位器是塑膠軸且帶有檔位，請將主軸先調整至其中一個檔位或中心檔位上才可以進行焊錫作業。

For rotary potentiometer with plastic shaft which have centre detent or multiple detents, the shaft should be settled in relevant detent position prior to soldering process.

4. 手工焊錫、自動或半自動機台焊錫不得超過一回。

Regardless of soldering facility and method, solder dipping or solder smearing must not be carried out more than 1 time.

註：本項焊錫溫度條件不適用於回流焊接作業設備。

Remarks: This specification is not recommended for and applicable in reflow soldering.

焊錫注意事項：

Caution for soldering:

如圖所示，請避免 PCB 上層表面有焊錫

Please avoid soldering on upper surface of P.C.B. as shown.

#### 5. 保管條件(Storage conditions):

產品需儲存在原始的包裝,以及保持常溫

常濕、避免陽光直射、遠離任何腐蝕性氣體。

產品需盡快完全地使用完,建議最慢不要超過

交貨後 6 個月。產品經拆封後，全部的數量都需迅速地使用完。

The products shall be stored in the original packaging and kept at room temperature and humidity, out of direct sunlight, and away from any and all corrosive gas. The products shall be completely used as soon as possible, but no longer than 6 months from the date of delivery. Once product packaging is opened, the complete quantity of such products shall be promptly used.

