

插入型絕緣/金屬軸式編碼規則

**RV 09 A X F - 40 E1 - 20 F X - B 5K - X X XXX**  
**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15**

**1. Product Line**

RV Rotary Potentiometer

**2. Model**

**3. Structure Difference**

**4. Derivatives**

**5. RoHS Version**

F indicates RoHS Compliance

**6. Type of Terminal**

| Code | Type of Terminal          |
|------|---------------------------|
| 10   | Solder lug                |
| 20   | PC board (horizontal)     |
| 30   | PC board (vertical);front |
| 40   | PC board (vertical);back  |

**7. Type of Bushing**

**8. Shaft Length**

**9. Type of Shaft**

**10. Axis Angle of F-type Shaft**

**11. Pattern of Resistance Curve**

**12. Resistance Value**

**13. Materials & Methods for  
Manufacturing Shaft & Bushing**

**14. Number of Click**

| Code | Specification      |
|------|--------------------|
| 0    | None               |
| C    | Center Click       |
| D    | 11 Positions click |
| E    | 21 Positions click |
| F    | 41 Positions click |

**15. Serial No.**

**訂單指定事項：**

開立訂單時，用途請依下表記載予以指定製品之規格詳細記載並確認之。

**項目：**

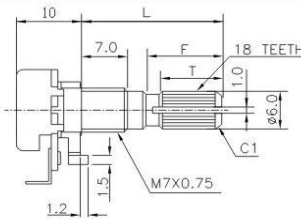
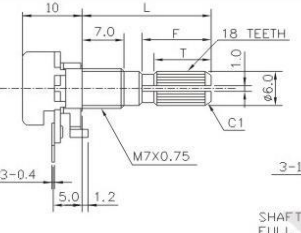
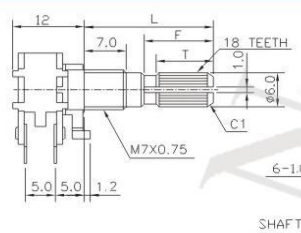
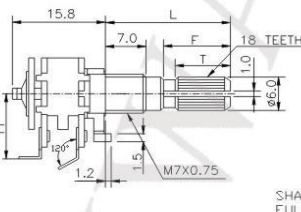
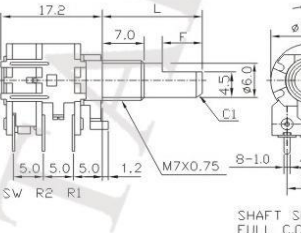
1. 型號。
2. 公稱阻值及線性要求。
3. 軸型及長度。
4. 端子型式。
5. 段點的有無。
6. 中間抽頭的有無。
7. 音量用或其他。
8. 手焊錫或錫爐焊錫。

**ORDERING INSTRUCTIONS**

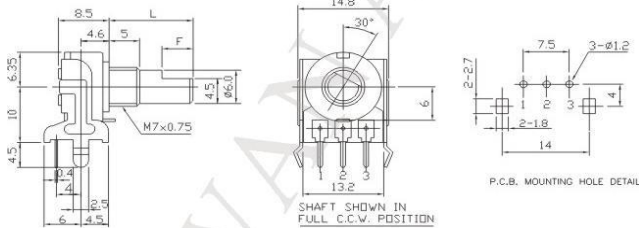
WHEN PLACING YOUR ORDER, PLEASE SPECIFY THE FOLLOWING ITEMS ACCORDING TO YOUR APPLICATION NEEDS. FOR MORE INFORMATION ABOUT OUR PRODUCTS, PLEASE REFER TO THE SPECIFICATION GIVEN ON THE FOLLOWING PAGES.

**ITEMS：**

1. MODEL.
2. NORMAL RESISTANCE VALUE AND TAPER.
3. SHAFT STYLE AND LENGTH.
4. TERMINAL STYLE.
5. WITH CLICK OR WITHOUT CLICK, CLICK POSITION
6. WITH TAP OR WITHOUT TAP, TAP POSITION.
7. FOR VOLUME CONTROL OR OTHER USE.
8. MANUAL SOLDERING OR DIP SOLDERING.

| Model                                                                                                                         | Outline Drawing                                                                                                                | Features / Individual Specification                                                                                                                                                                                                      |      |   |    |    |    |      |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----|----|----|------|
| <b>RV120F-10</b><br>                         |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>   | ● 300° rotation mono unit<br>1)                                                                                                                                                                                                          |      |   |    |    |    |      |
| <b>RV120F-20</b><br><b>RV120F-21</b><br>     |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>   | ● 300° rotation mono unit<br>(R1)<br><table><tr><th>Type</th><th>H</th></tr><tr><td>20</td><td>10</td></tr><tr><td>21</td><td>12.5</td></tr></table> <p>MOUNTING SURFACE<br/>P.C.B. MOUNTING HOLE DETAIL</p>                             | Type | H | 20 | 10 | 21 | 12.5 |
| Type                                                                                                                          | H                                                                                                                              |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| 20                                                                                                                            | 10                                                                                                                             |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| 21                                                                                                                            | 12.5                                                                                                                           |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| <b>RV122F-20</b><br><b>RV122F-21</b><br>   |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>  | ● 300° rotation Dual unit<br><table><tr><th>Type</th><th>H</th></tr><tr><td>20</td><td>10</td></tr><tr><td>21</td><td>12.5</td></tr></table> <p>MOUNTING SURFACE<br/>P.C.B. MOUNTING HOLE DETAIL</p>                                     | Type | H | 20 | 10 | 21 | 12.5 |
| Type                                                                                                                          | H                                                                                                                              |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| 20                                                                                                                            | 10                                                                                                                             |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| 21                                                                                                                            | 12.5                                                                                                                           |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| <b>RV122F-10-XXX-0C</b><br>                |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> | ● 300° rotation Dual unit                                                                                                                                                                                                                |      |   |    |    |    |      |
| <b>RV12GSF-20</b><br><b>RV12GSF-21</b><br> |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> | ● 300°<br>Dual unit with Rotary switch<br>S.P.S.T. D.C 12V 3A<br><table><tr><th>Type</th><th>H</th></tr><tr><td>20</td><td>10</td></tr><tr><td>21</td><td>12.5</td></tr></table> <p>MOUNTING SURFACE<br/>P.C.B. MOUNTING HOLE DETAIL</p> | Type | H | 20 | 10 | 21 | 12.5 |
| Type                                                                                                                          | H                                                                                                                              |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| 20                                                                                                                            | 10                                                                                                                             |                                                                                                                                                                                                                                          |      |   |    |    |    |      |
| 21                                                                                                                            | 12.5                                                                                                                           |                                                                                                                                                                                                                                          |      |   |    |    |    |      |

[illegible]

| Model             | Outline Drawing                                                                                                                                                        | Features / Individual Specification |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| RV120DF-20B1-(L)F |   |                                     |

**RV120DF-40B1-(L)K**



Technical drawing showing the front view and side view of the RV120DF-40B1-(L)K servo motor. The front view shows the motor housing with a 13mm diameter and 6mm height. The side view shows the motor housing with a 10mm diameter and 4.6mm height. The motor has 18 teeth and a shaft slot angle that is optional. The mounting hole detail shows a 12.6mm diameter hole with a 2.5mm diameter and a 2.2mm diameter hole with a 2.2mm diameter.

Technical drawing showing the front view and side view of the RV120DF-40B1-(L)K servo motor. The front view shows the motor housing with a 13mm diameter and 6mm height. The side view shows the motor housing with a 10mm diameter and 4.6mm height. The motor has 18 teeth and a shaft slot angle that is optional. The mounting hole detail shows a 12.6mm diameter hole with a 2.5mm diameter and a 2.2mm diameter hole with a 2.2mm diameter.

## SPECIFICATION

RV120DF-20B1/40B1

## MECHANICAL

|                     |              |
|---------------------|--------------|
| ROTATION ANGLE      | 300°±5°      |
| ROTATION TORQUE     | 20~150gf.cm  |
| SHAFT STOP STRENGTH | 4kgf.cm/min. |
| CLICK TORQUE        | 50~300gf.cm  |

**Shaft Material:** Metal

## ELECTRICAL

RATED WATTAGE

RATED VOLTAGE  
INSULATION RESISTANCE  
DIELECTRIC STRENGTH  
ROTATION LIFE

|                      |              |
|----------------------|--------------|
| linear taper(B)      | other tapers |
| 0.08W                | 0.04W        |
| 150V                 | 100V         |
| 50M $\Omega$ 500V DC |              |
| 500V AC minute       |              |
| 15,000 cycles        |              |

|      |                            |
|------|----------------------------|
| Code | Type of terminal           |
| 20B1 | PC Board (Horizontal Type) |
| 40B1 | PC Board (Vertical Type)   |