

## 9mm Rotary Type, Snap-In, Insulated Shaft

### Application

- ✓ TV/Video, Audio, Home appliance, Industrial control

### Feature

- ✓ Smooth rotation feeling



### ■Specification

|                                       |  |
|---------------------------------------|--|
| Total Rotational Angle                | RV09A series: 280±5° , RV09B series: 300±5°            |
| Maximum Operating Voltage             | 50V AC   |
| Insulation Resistance                 | 100MΩ at DC250V  |
| Dielectric Strength                   | AC250V for 1 minute                                    |
| Rotational Torque                     | 10-100 gf.cm   |
| Click Torque                          | 20-120 gf.cm   |
| Rotational Stop Strength of the Shaft | 3 kgs.cm min   |
| Push/Pull Strength of the Shaft       | 5kgs for 3 sec   |
| Operating Temperature Range           | -10 °C~70°C  |
| Rotation Life                         | With click: 5,000 cycles, without click: 10,000 cycles |

### ■How to order

RV09AF-20 – 15F - B10K - 0C

[Model](#)

[Shaft Type](#)

#### Taper and Resistance Value

| Order Code | Taper     | Resistance Value |
|------------|-----------|------------------|
| A100K      | Log/A     | 100KΩ            |
| B1M        | Linear/B  | 1MΩ              |
| C500K      | Rev-log/C | 500KΩ            |

Taper: A, B and C

Resistance Value: 1KΩ to 500KΩ and 1MΩ

\*Contact us for other requirements.

#### Click

| Order Code | Description       |
|------------|-------------------|
| Blank      | No click          |
| 0C         | With center click |

## 9mm Rotary Type, Snap-In, Insulated Shaft

### ■ Model Description

| Model                        | Number of Unit | Terminal Type | With Sleeve or Bushing | Rotational Angle | Mounting Height |
|------------------------------|----------------|---------------|------------------------|------------------|-----------------|
| <a href="#">RV09ACF-20</a>   | Single unit    | Horizontal    | Sleeve                 | 280°±5°          | 10 mm           |
| <a href="#">RV09BCF-20</a>   | Single unit    | Horizontal    | Sleeve                 | 300°±5°          | 10 mm           |
| <a href="#">RV09ACF-40</a>   | Single unit    | Vertical      | Sleeve                 | 280°±5°          | 7.0 mm          |
| <a href="#">RV09BCF-40</a>   | Single unit    | Vertical      | Sleeve                 | 300°±5°          | 7.0 mm          |
| <a href="#">RV09AF-20</a>    | Single unit    | Horizontal    | N/A                    | 280°±5°          | 10 mm           |
| <a href="#">RV09AF-21</a>    | Single unit    | Horizontal    | N/A                    | 280°±5°          | 6.5 mm          |
| <a href="#">RV09BF-20</a>    | Single unit    | Horizontal    | N/A                    | 300°±5°          | 10 mm           |
| <a href="#">RV09BF-21</a>    | Single unit    | Horizontal    | N/A                    | 300°±5°          | 6.5 mm          |
| <a href="#">RV09AF-40</a>    | Single unit    | Vertical      | N/A                    | 280°±5°          | 7.0 mm          |
| <a href="#">RV09BF-40</a>    | Single unit    | Vertical      | N/A                    | 300°±5°          | 7.0 mm          |
| <a href="#">RV09AF-20E1N</a> | Single unit    | Horizontal    | Plastic bushing        | 280°±5°          | 10 mm           |
| <a href="#">RV09AF-21E1N</a> | Single unit    | Horizontal    | Plastic bushing        | 280°±5°          | 6.5 mm          |
| <a href="#">RV09BF-20E1N</a> | Single unit    | Horizontal    | Plastic bushing        | 300°±5°          | 10 mm           |
| <a href="#">RV09BF-21E1N</a> | Single unit    | Horizontal    | Plastic bushing        | 300°±5°          | 6.5 mm          |
| <a href="#">RV09AF-40E1N</a> | Single unit    | Vertical      | Plastic bushing        | 280°±5°          | 7.0 mm          |
| <a href="#">RV09BF-40E1N</a> | Single unit    | Vertical      | Plastic bushing        | 300°±5°          | 7.0 mm          |
| <a href="#">RV09AF-20E1</a>  | Single unit    | Horizontal    | Metal bushing          | 280°±5°          | 10 mm           |
| <a href="#">RV09BF-20E1</a>  | Single unit    | Horizontal    | Metal bushing          | 300°±5°          | 10 mm           |
| <a href="#">RV09AF-21E1</a>  | Single unit    | Horizontal    | Metal bushing          | 280°±5°          | 6.5 mm          |
| <a href="#">RV09BF-21E1</a>  | Single unit    | Horizontal    | Metal bushing          | 300±5°           | 6.5 mm          |
| <a href="#">RV09AF-40E1</a>  | Single unit    | Vertical      | Metal bushing          | 280°±5°          | 7.0 mm          |
| <a href="#">RV09BF-40E1</a>  | Single unit    | Vertical      | Metal bushing          | 300°±5°          | 7.0 mm          |

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# POTENTIOMETERS



## 9mm Rotary Type, Snap-In, Insulated Shaft

| Order Code  | Outline Drawing   |   |  |       |   |             |      |             |     |
|---|---|---|--|-------|---|-------------|------|-------------|-----|
| RV09ACF-20<br>RV09BCF-20<br>                     |    | SHAFT SHOWN IN FULL C.C.W. POSITION<br>   | <br>P.C.B.MOUNTING HOLE DETAIL  |       |   |             |      |             |     |
| RV09ACF-40<br>RV09BCF-40<br>                    |   | <br>SHAFT SHOWN IN FULL C.C.W. POSITION  | <br>P.C.B.MOUNTING HOLE DETAIL   |       |   |             |      |             |     |
| RV09AF-20,RV09BF-20<br>RV09AF-21,RV09BF-21<br> |  | <br>SHAFT SHOWN IN FULL C.C.W. POSITION | <br>P.C.B.MOUNTING HOLE DETAIL<br><table border="1" data-bbox="1228 1489 1492 1579"> <thead> <tr> <th>MODEL</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>RV09A(B)-20</td> <td>10.0</td> </tr> <tr> <td>RV09A(B)-21</td> <td>6.5</td> </tr> </tbody> </table> | MODEL | H | RV09A(B)-20 | 10.0 | RV09A(B)-21 | 6.5 |
| MODEL   | H   |   |  |       |   |             |      |             |     |
| RV09A(B)-20   | 10.0  |   |  |       |   |             |      |             |     |
| RV09A(B)-21   | 6.5   |   |  |       |   |             |      |             |     |
| RV09AF-40<br>RV09BF-40<br>                     |  | <br>SHAFT SHOWN IN FULL C.C.W. POSITION | <br>P.C.B.MOUNTING HOLE DETAIL  |       |   |             |      |             |     |

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# POTENTIOMETERS



## 9mm Rotary Type, Snap-In, Insulated Shaft

| Order code  | Outline Drawing   |  |  |       |   |                |      |                |     |
|---|---|--|--|-------|---|----------------|------|----------------|-----|
| RV09AF-20E1N, RV09AF-21E1N<br>RV09BF-20E1N, RV09BF-21E1N<br> |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> <p>P.C.B.MOUNTING HOLE DETAIL</p> <table border="1" data-bbox="1220 638 1492 728"> <thead> <tr> <th>MODEL</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>RV09A(B)-20E1N</td> <td>10.0</td> </tr> <tr> <td>RV09A(B)-21E1N</td> <td>6.5</td> </tr> </tbody> </table>   |  |  | MODEL | H | RV09A(B)-20E1N | 10.0 | RV09A(B)-21E1N | 6.5 |
| MODEL   | H   |  |  |       |   |                |      |                |     |
| RV09A(B)-20E1N  | 10.0  |  |  |       |   |                |      |                |     |
| RV09A(B)-21E1N  | 6.5   |  |  |       |   |                |      |                |     |
| RV09AF-40E1N<br>RV09BF-40E1N<br>                            |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> <p>P.C.B.MOUNTING HOLE DETAIL</p>  |  |  |       |   |                |      |                |     |
| RV09AF-20E1, RV09BF-20E1<br>RV09AF-21E1, RV09BF-21E1<br>   |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> <p>P.C.B.MOUNTING HOLE DETAIL</p> <table border="1" data-bbox="1220 1489 1492 1579"> <thead> <tr> <th>MODEL</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>RV09A(B)-20E1</td> <td>10.0</td> </tr> <tr> <td>RV09A(B)-21E1</td> <td>6.5</td> </tr> </tbody> </table> |  |  | MODEL | H | RV09A(B)-20E1  | 10.0 | RV09A(B)-21E1  | 6.5 |
| MODEL   | H   |  |  |       |   |                |      |                |     |
| RV09A(B)-20E1   | 10.0  |  |  |       |   |                |      |                |     |
| RV09A(B)-21E1   | 6.5   |  |  |       |   |                |      |                |     |
| RV09AF-40E1<br>RV09BF-40E1<br>                             |  <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> <p>P.C.B. MOUNTING HOLE DETAIL</p>  |  |  |       |   |                |      |                |     |

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## 9mm Rotary Type, Snap-In, Insulated Shaft

### ■ K TYPE

|  |   |  |   |
|--|---|--|---|
| RV09AF-20(21)-(L)K<br>RV09BF-20(21)-(L)K   | RV09AF-40-(L)K<br>RV09BF-40-(L)K  | RV09ACF-20-(L)K<br>RV09BCF-20-(L)K   | RV09ACF-40-(L)K<br>RV09BCF-40-(L)K  |
|  |  |  |  |

#### RV09AF, RV09ACF

| Order Code | 15K | 20K | 25K | 30K |
|------------|-----|-----|-----|-----|
| L          | 15  | 20  | 25  | 30  |
| T          | 7   | 7   | 7   | 7   |

#### RV09BF, RV09BCF

| Order Code | 20K | 25K | 30K |
|------------|-----|-----|-----|
| L          | 20  | 25  | 30  |
| T          | 7   | 7   | 7   |

\*\*15 mm shaft is not available for RV09ACF/BCF models.

|  |   |
|--|---|
| RV09AF-20E1N(21E1N)-(L)K<br>RV09BF-20E1N(21E1N)-(L)K<br>RV09AF-20E1(21E1)-(L)K<br>RV09BF-20E1(21E1)-(L)K | RV09AF-40E1N-(L)K<br>RV09BF-40E1N-(L)K<br>RV09AF-40E1-(L)K<br>RV09BF-40E1-(L)K        |
|                        |    |
|                      |  |

| Order Code | 165K | 25K  |
|------------|------|------|
| L          | 16.5 | 21.5 |
| T          | 7    | 7    |

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## 9mm Rotary Type, Snap-In, Insulated Shaft

### ■ F TYPE



#### RV09AF, RV09ACF

| Order Code | *15F | 20F | 21F | 25F | 26F | 30F | 31F | 375F |
|------------|------|-----|-----|-----|-----|-----|-----|------|
| L          | 15   | 20  | 21  | 25  | 26  | 30  | 31  | 37.5 |
| F          | 6    | 7   | 7   | 7   | 12  | 12  | 12  | 12   |

#### RV09BF, RV09BCF

| Order Code | *15F | 20F | 21F | 235F | 25F | 26F  | 30F | 31F | 335F | 35F | 375F |
|------------|------|-----|-----|------|-----|------|-----|-----|------|-----|------|
| L          | 15   | 20  | 21  | 23.5 | 25  | 26   | 30  | 31  | 33.5 | 35  | 37.5 |
| F          | 6    | 7   | 7   | 7    | 7   | 8.25 | 12  | 12  | 12   | 12  | 12   |

\*\*15 mm shaft is not available for RV09ACF/BCF models.

RV09AF-20E1N(21E1N)-(L)F  
 RV09BF-20E1N(21E1N)-(L)F  
 RV09AF-20E1(21E1)-(L)F  
 RV09BF-20E1(21E1)-(L)F

RV09AF-40E1N-(L)F  
 RV09BF-40E1N-(L)F  
 RV09AF-40E1-(L)F  
 RV09BF-40E1-(L)F



#### RV09AF

| Order Code | 115F | 125F | 165F | 175F | 215F | 225F | 29F |
|------------|------|------|------|------|------|------|-----|
| L          | 11.5 | 12.5 | 16.5 | 17.5 | 21.5 | 22.5 | 29  |
| F          | 7    | 7    | 7    | 12   | 12   | 12   | 12  |

#### RV09BF

| Order Code | 115F | 125F | 15F | 165F | 165F | 165F | 175F | 215F | 225F | 25F | 265F | 29F |
|------------|------|------|-----|------|------|------|------|------|------|-----|------|-----|
| L          | 11.5 | 12.5 | 15  | 16.5 | 16.5 | 16.5 | 17.5 | 21.5 | 22.5 | 25  | 26.5 | 29  |
| F          | 7    | 7    | 7   | 7    | 8.25 | 12   | 12   | 12   | 12   | 12  | 12   | 12  |

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## 9mm Rotary Type, Snap-In, Insulated Shaft

### ■ B TYPE



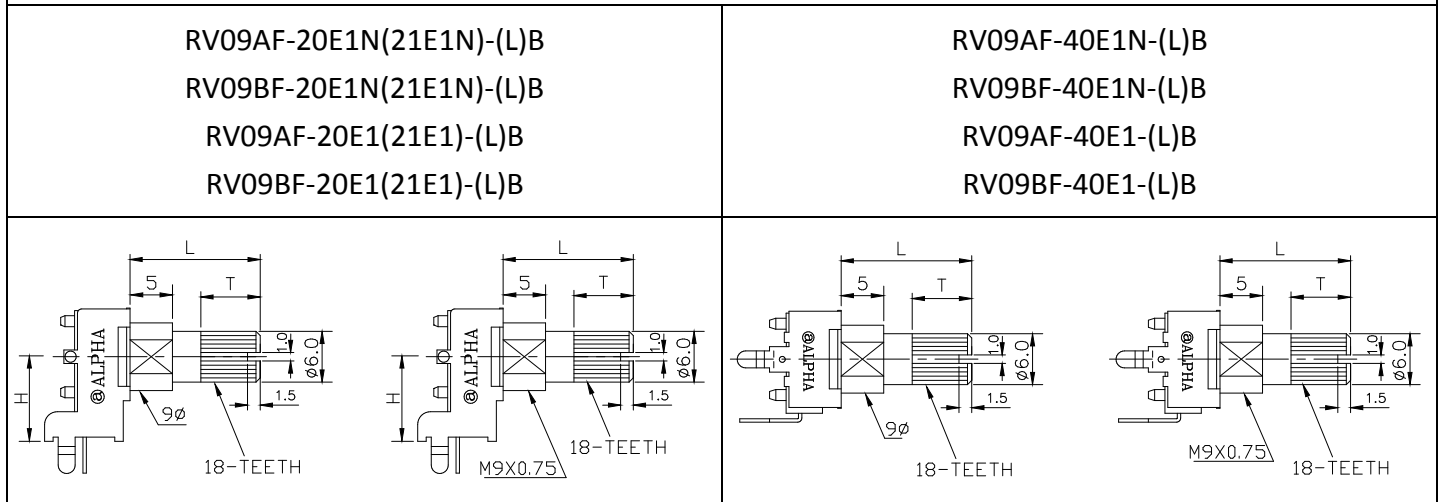
#### RV09AF, RV09ACF

| Order Code | 15B | 20F | 25B | 30B |
|------------|-----|-----|-----|-----|
| L          | 15  | 20  | 25  | 30  |
| T          | 7   | 7   | 7   | 7   |

#### RV09BF, RV09BCF

| Order Code | 20B | 25B | 30B | 33B |
|------------|-----|-----|-----|-----|
| L          | 20  | 25  | 30  | 33  |
| T          | 7   | 7   | 7   | 7   |

\*\*15 mm shaft is not available for RV09ACF/BCF models.



#### RV09AF

| Order Code | 115B | 165B | 215B |
|------------|------|------|------|
| L          | 11.5 | 16.5 | 21.5 |
| T          | 7    | 7    | 7    |

#### RV09BF

| Order Code | 115B | 165B | 215B | 25B |
|------------|------|------|------|-----|
| L          | 11.5 | 16.5 | 21.5 | 25  |
| T          | 7    | 7    | 7    | 7   |

Design and specifications presented here are for the standard parts only. Please kindly contact us for your special requests and ask for the current technical specifications before purchase and/or use.

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[RV09AF-40-20K-B55](#) [RV09AF-40-20K-B50K](#) [RV09AF-40-20K-A54](#) [RV09AF-20-20K-B16](#) [RV09AF-20-20K-B13](#)  
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