

## 11mm Snap-In, Insulated and Metal Shaft

### Application

- ✓ TV/Video, Audio, Home appliance, Musical instrument

### Feature

- ✓ Closed structure helps reducing dust



### ■ Specification

|                                       |   |
|---------------------------------------|---|
| Total Rotational Angle                | 300±5°  |
| Maximum Operating Voltage             | 50V AC, 20V DC<br>(RV110TF series is designed for AC voltage only)                  |
| Insulation Resistance                 | 100MΩ at DC500V   |
| Dielectric Strength                   | AC300V for 1 minute   |
| Rotational Torque                     | 20-200 gf.cm (RV110F-40B1: 10-200 gf.cm)  |
| Click Torque                          | Rotational torque + 20-200 gf.cm<br>(RV110F-40B1: Rotational torque + 10-200 gf.cm) |
| Rotational Stop Strength of the Shaft | With bushing: 5 kgf.cm min; without bushing: 4kgf.cm min                            |
| Push/Pull Strength of the Shaft       | 6kgf for 3 sec  |
| Rotation Life                         | 15,000 cycles   |

### ■ How to order

RV110F-20 – 15A - 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.

\*\* RV112F series only has W taper

#### Click

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

## 11mm Snap-In, Insulated and Metal Shaft

### Model Description



| Model                        | Number of Unit | Terminal Type | With Sleeve or Bushing | Tap      |
|------------------------------|----------------|---------------|------------------------|----------|
| <a href="#">RV110F-20</a>    | Single unit    | Horizontal    | N/A                    | N/A      |
| <a href="#">RV110F-21</a>    | Single unit    | Horizontal    | N/A                    | N/A      |
| <a href="#">RV110F-20E1</a>  | Single unit    | Horizontal    | Bushing                | N/A      |
| <a href="#">RV110F-21E1</a>  | Single unit    | Horizontal    | Bushing                | N/A      |
| <a href="#">RV110F-40</a>    | Single unit    | Vertical      | N/A                    | N/A      |
| <a href="#">RV110CF-40</a>   | Single unit    | Vertical      | Sleeve                 | N/A      |
| <a href="#">RV110F-40B1</a>  | Single unit    | Vertical      | Bushing                | N/A      |
| <a href="#">RV110F-40E1</a>  | Single unit    | Vertical      | Bushing                | N/A      |
| <a href="#">RV110TF-20</a>   | Single unit    | Horizontal    | N/A                    | With tap |
| <a href="#">RV110TF-20E1</a> | Single unit    | Horizontal    | Bushing                | With tap |
| <a href="#">RV110TF-40</a>   | Single unit    | Vertical      | N/A                    | With tap |
| <a href="#">RV110TCF-40</a>  | Single unit    | Vertical      | Sleeve                 | With tap |
| <a href="#">RV110TF-40B1</a> | Single unit    | Vertical      | Bushing                | With tap |
| <a href="#">RV110TF-40E1</a> | Single unit    | Vertical      | Bushing                | With tap |
| <a href="#">RV112F-40</a>    | Dual unit      | Vertical      | N/A                    | N/A      |

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## 11mm Snap-In, Insulated and Metal Shaft

| Order Code   | Outline Drawing   |  |  |      |   |   |    |      |     |    |      |     |
|--|---|--|--|------|---|---|----|------|-----|----|------|-----|
| RV110F-20<br>RV110F-21<br>      |    | SHAFT SHOWN IN FULL C.C.W POSITION<br>   | <table border="1" data-bbox="1292 324 1428 414"> <thead> <tr> <th>Type</th> <th>H</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>10.0</td> <td>3.2</td> </tr> <tr> <td>21</td> <td>12.5</td> <td>4.5</td> </tr> </tbody> </table>  <p>P.C.B. MOUNTING HOLE DETAIL</p>  | Type | H | N | 20 | 10.0 | 3.2 | 21 | 12.5 | 4.5 |
| Type   | H   | N  |  |      |   |   |    |      |     |    |      |     |
| 20   | 10.0  | 3.2  |  |      |   |   |    |      |     |    |      |     |
| 21   | 12.5  | 4.5  |  |      |   |   |    |      |     |    |      |     |
| RV110F-20E1<br>RV110F-21E1<br> |   | SHAFT SHOWN IN FULL C.C.W POSITION<br>  | <table border="1" data-bbox="1292 772 1428 862"> <thead> <tr> <th>Type</th> <th>H</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>10.0</td> <td>3.2</td> </tr> <tr> <td>21</td> <td>12.5</td> <td>4.5</td> </tr> </tbody> </table>  <p>P.C.B. MOUNTING HOLE DETAIL</p> | Type | H | N | 20 | 10.0 | 3.2 | 21 | 12.5 | 4.5 |
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| 20   | 10.0  | 3.2  |  |      |   |   |    |      |     |    |      |     |
| 21   | 12.5  | 4.5  |  |      |   |   |    |      |     |    |      |     |
| RV110F-40<br>                 |  | SHAFT SHOWN IN FULL C.C.W POSITION<br> |  <p>P.C.B. MOUNTING HOLE DETAIL</p>   |      |   |   |    |      |     |    |      |     |
| RV110CF-40<br>                |  | SHAFT SHOWN IN FULL C.C.W POSITION<br> |  <p>P.C.B. MOUNTING HOLE DETAIL</p>   |      |   |   |    |      |     |    |      |     |

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| Order Code  | Outline Drawing   |   |   |      |   |   |    |      |     |    |      |     |
|---|---|---|---|------|---|---|----|------|-----|----|------|-----|
| RV110F-40B1<br>                    |    | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>     |  <p>P.C.B. MOUNTING HOLE DETAIL</p>  |      |   |   |    |      |     |    |      |     |
| RV110F-40E1<br>                   |   | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>    |  <p>P.C.B. MOUNTING HOLE DETAIL</p>   |      |   |   |    |      |     |    |      |     |
| RV110TF-20<br>RV110TF-21<br>     |  | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>  | <table border="1" data-bbox="1316 1198 1444 1288"> <thead> <tr> <th>Type</th> <th>H</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>10.0</td> <td>3.2</td> </tr> <tr> <td>21</td> <td>12.5</td> <td>4.5</td> </tr> </tbody> </table>  <p>P.C.B. MOUNTING HOLE DETAIL</p> | Type | H | N | 20 | 10.0 | 3.2 | 21 | 12.5 | 4.5 |
| Type  | H   | N   |   |      |   |   |    |      |     |    |      |     |
| 20  | 10.0  | 3.2   |   |      |   |   |    |      |     |    |      |     |
| 21  | 12.5  | 4.5   |   |      |   |   |    |      |     |    |      |     |
| RV110TF-20E1<br>RV110TF-21E1<br> |  | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>   | <table border="1" data-bbox="1316 1646 1444 1736"> <thead> <tr> <th>Type</th> <th>H</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>10.0</td> <td>3.2</td> </tr> <tr> <td>21</td> <td>12.5</td> <td>4.5</td> </tr> </tbody> </table>  <p>P.C.B. MOUNTING HOLE DETAIL</p> | Type | H | N | 20 | 10.0 | 3.2 | 21 | 12.5 | 4.5 |
| Type  | H   | N   |   |      |   |   |    |      |     |    |      |     |
| 20  | 10.0  | 3.2   |   |      |   |   |    |      |     |    |      |     |
| 21  | 12.5  | 4.5   |   |      |   |   |    |      |     |    |      |     |

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## 11mm Snap-In, Insulated and Metal Shaft

| Order Code  | Outline Drawing   |  |  |
|---|---|--|--|
| <p>RV110TF-40</p>      |    | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>    |  <p>P.C.B. MOUNTING HOLE DETAIL</p>   |
| <p>RV110TCF-40</p>    |   | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>   |  <p>P.C.B. MOUNTING HOLE DETAIL</p>  |
| <p>RV110TF-40B1</p>  |  | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>  |  <p>P.C.B. MOUNTING HOLE DETAIL</p> |
| <p>RV110TF-40E1</p>  |  | <p>SHAFT SHOWN IN FULL C.C.W POSITION</p>  |  <p>P.C.B. MOUNTING HOLE DETAIL</p> |

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## 11mm Snap-In, Insulated and Metal Shaft

| Order Code   | Outline Drawing   |
|--|---|
| RV112F-40<br><br> |  <p>SHAFT SHOWN IN FULL C.C.W POSITION</p> <p>P.C.B. MOUNTING HOLE DETAIL</p> |

### ■ Metal Shaft Type

| F Type  | K Type   |     |     |     |   |    |    |    |  |            |     |     |     |   |    |    |    |
|---|--|-----|-----|-----|---|----|----|----|--|------------|-----|-----|-----|---|----|----|----|
| RV110F-40B1-(L)F<br>RV110TF-40B1-(L)F   | RV110F-40B1-(L)K<br>RV110TF-40B1-(L)K  |     |     |     |   |    |    |    |  |            |     |     |     |   |    |    |    |
|    |  |     |     |     |   |    |    |    |  |            |     |     |     |   |    |    |    |
| <table border="1" data-bbox="172 1599 692 1697"> <thead> <tr> <th>Order Code</th> <th>15F</th> <th>20F</th> <th>25F</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>15</td> <td>20</td> <td>25</td> </tr> </tbody> </table> | Order Code   | 15F | 20F | 25F | L | 15 | 20 | 25 | <table border="1" data-bbox="900 1599 1420 1697"> <thead> <tr> <th>Order Code</th> <th>15K</th> <th>20K</th> <th>25K</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>15</td> <td>20</td> <td>25</td> </tr> </tbody> </table> | Order Code | 15K | 20K | 25K | L | 15 | 20 | 25 |
| Order Code  | 15F  | 20F | 25F |     |   |    |    |    |  |            |     |     |     |   |    |    |    |
| L   | 15   | 20  | 25  |     |   |    |    |    |  |            |     |     |     |   |    |    |    |
| Order Code  | 15K  | 20K | 25K |     |   |    |    |    |  |            |     |     |     |   |    |    |    |
| L   | 15   | 20  | 25  |     |   |    |    |    |  |            |     |     |     |   |    |    |    |

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## 11mm Snap-In, Insulated and Metal Shaft

### ■ A / AW Plastic Shaft Type

|  |   |   |
|--|---|---|
| RV110F-20 (21)-(L)A<br>RV110TF-20 (21)-(L)A                                      | RV110F-40-(L)A<br>RV110TF-40-(L)A<br>RV112F-40-(L)A                               | RV110CF-40-(L)A<br>RV110TCF-40-(L)A   |
|  |  |  |

| Order Code | *15A | 20A | 225A | 25A | 275A | 30A | 325A | 35A | 375A |
|------------|------|-----|------|-----|------|-----|------|-----|------|
| L          | 15   | 20  | 21   | 25  | 27.5 | 30  | 32.5 | 35  | 37.5 |
| F          | 4.5  | 7   | 7    | 7   | 12   | 12  | 12   | 12  | 12   |

\*\*15 mm is not available for RV110CF-40 and RV110CTF-40 models.

|   |  |
|---|--|
| RV110(T)F-20E1(21E1)-(L)A   | RV110(T)F-40E1-(L)A  |
|  |  |
| RV110(T)F-20E1(21E1)-(L)AW  | RV110(T)F-40E1-(L)AW   |
|  |  |

| Order Code | 125A  | 135A  | 15A  | 175A  | 20A  | 225A  | 25A  | 275A  | 29A  | 30A  |
|------------|-------|-------|------|-------|------|-------|------|-------|------|------|
|            | 125AW | 135AW | 15AW | 175AW | 20AW | 225AW | 25AW | 275AW | 29AW | 30AW |
| L          | 12.5  | 13.5  | 15   | 17.5  | 20   | 22.5  | 25   | 27.5  | 29   | 30   |
| F          | 7     | 7     | 7    | 7*    | 12   | 12    | 12   | 12    | 12   | 12   |

\*\*17.5mm with F = 7mm is only available for A type, not AW type.

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## 11mm Snap-In, Insulated and Metal Shaft

### ■ B Plastic Shaft Type

|  |   |   |
|--|---|---|
| RV110F-20 (21)-(L)B<br>RV110TF-20 (21)-(L)B                                      | RV110F-40-(L)B<br>RV110TF-40-(L)B<br>RV112F-40-(L)B                               | RV110CF-40-(L)B<br>RV110TCF-40-(L)B   |
|  |  |  |

| Order Code | *15B | 20B | 225B | 25B | 275B | 30B | 375B |
|------------|------|-----|------|-----|------|-----|------|
| L          | 15   | 20  | 21   | 25  | 27.5 | 30  | 37.5 |
| T          | 6    | 7   | 7    | 12  | 12   | 12  | 12   |

\*\*15 mm shaft is not available for RV110CF-40 and RV110CTF-40 models.

|   |  |
|---|--|
| RV110F-20E1(21E1)-(L)B<br>RV110TF-20E1(21E1)-(L)B                                   | RV110F-40E1-(L)B<br>RV110TF-40E1-(L)B  |
|  |  |

| Order Code | 125B | 15B | 175B   | 20B | 225B | 25B |
|------------|------|-----|--------|-----|------|-----|
| L          | 12.5 | 15  | 17.5   | 20  | 22.5 | 25  |
| T          | 7    | 7   | 7   12 | 12  | 12   | 12  |

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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# Mouser Electronics

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- Оценку стоимости проекта по компонентам.
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