

12mm Rotary Type, Metal Shaft Series

Application

- ✓ Audio, Home appliance, Automotive, Communication

Feature

- ✓ Suit for various applications



■Specification

Total Rotational Angle	300±5°
Maximum Operating Voltage	100V AC
Insulation Resistance	50MΩ at DC500V
Dielectric Strength	AC 500V for 1 minute
Rotational Torque	RV120DF: 20-150 gf.cm; Others: 10-150 gf.cm
Click Torque	50-300 gf.cm
Rotational Stop Strength of the Shaft	RV120DF: 4 kgf.cm; Others: 3 kgf.cm min
Push/Pull Strength of the Shaft	10kgf for 10 sec
Rotation Life	15,000 cycles

■How to order

RV120F – 10 B1 – 15F – A50K – 0C

Model

Bushing Type

RV120DF-20B1, RV120DF-40B1

Order Code	Length
B1	5 mm

Other Model

Order Code	Length
B1	5 mm
Blank	7 mm

Metal Shaft Type

Click

Model	Order code	Description
RV120DF	1	No click
	1C	With center click
Other	Blank	No click
	0C	With center click

Taper and Resistance Value

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

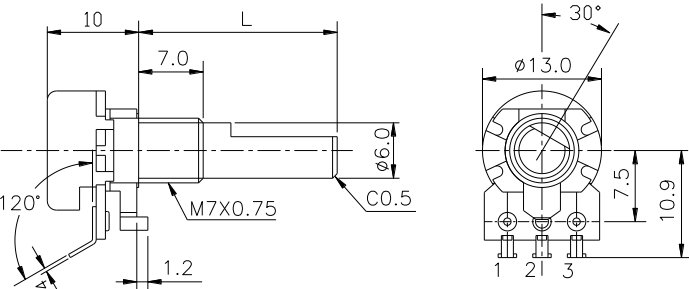
Taper: A, B and C

Resistance Value: 1KΩ to 500KΩ and 1MΩ

*Contact us for other requirements.

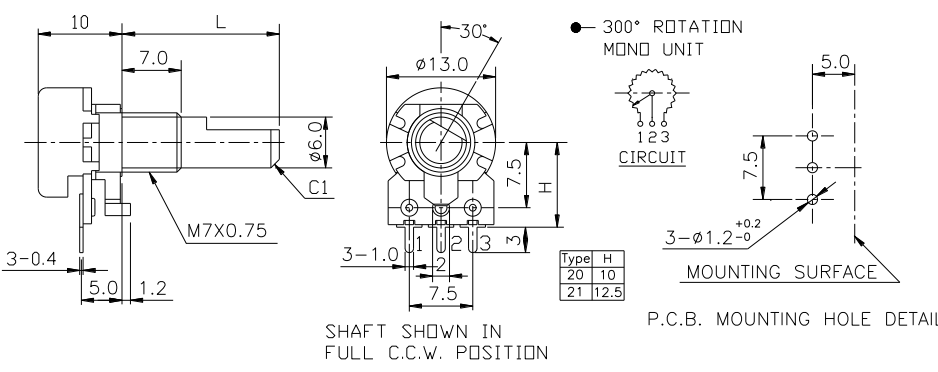
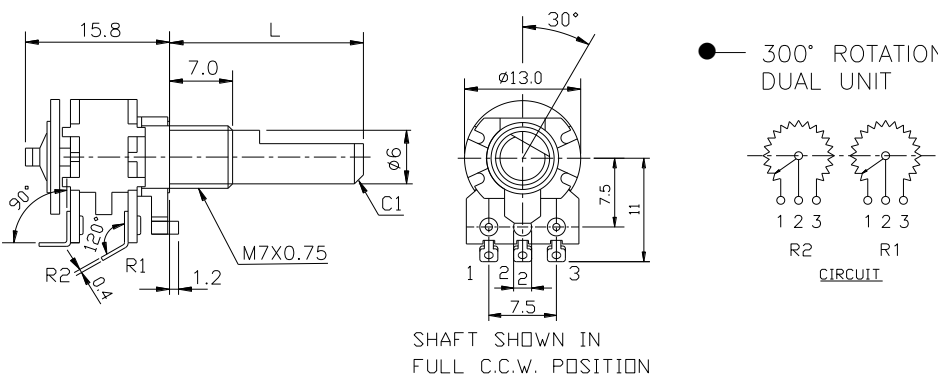
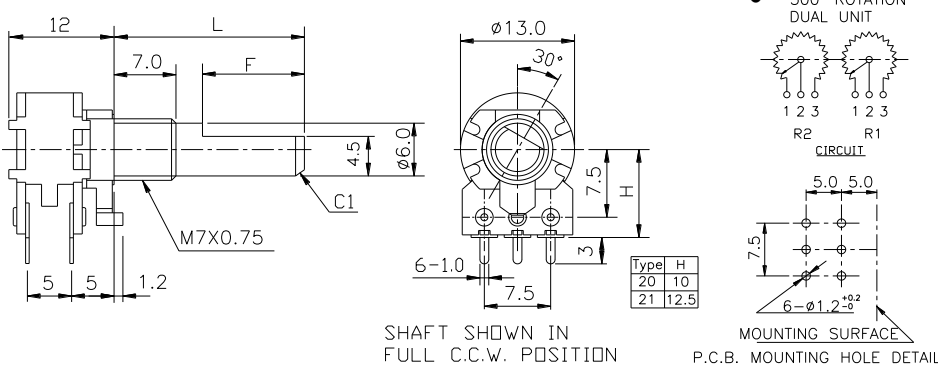
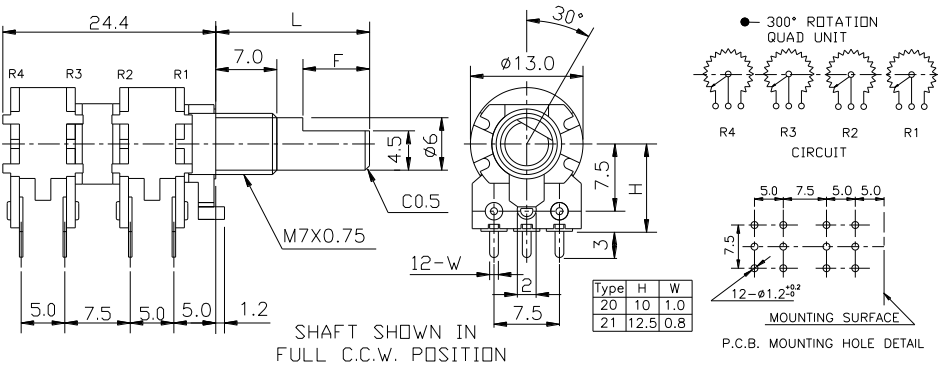
■ Model Description

Model	Number of Unit	Switch Function	Terminal Type	With Sleeve or Bushing	Rotational Angle
RV120F-10	Single unit	N/A	Solder lug	Metal bushing	300°±5°
RV120F-20	Single unit	N/A	Horizontal	Metal bushing	300°±5°
RV120F-21	Single unit	N/A	Horizontal	Metal bushing	300°±5°
RV122F-10	Dual unit	N/A	Solder lug	Metal bushing	300°±5°
RV122F-20	Dual unit	N/A	Horizontal	Metal bushing	300°±5°
RV122F-21	Dual unit	N/A	Horizontal	Metal bushing	300°±5°
RV124F-20	Quad unit	N/A	Horizontal	Metal bushing	300°±5°
RV124F-21	Quad unit	N/A	Horizontal	Metal bushing	300°±5°
RV120DF-20B1	Single unit	N/A	Horizontal	Metal bushing	300°±5°
RV120DF-40B1	Single unit	N/A	Vertical	Metal bushing	300°±5°

Order Code	Outline Drawing
RV120F-10 	 SHAFT SHOWN IN FULL C.C.W. POSITION ● 300° ROTATION MONO UNIT  CIRCUIT

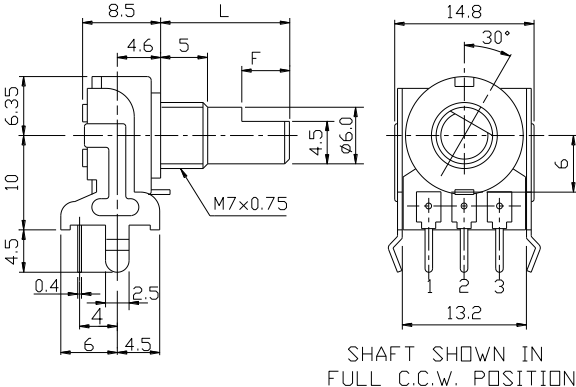
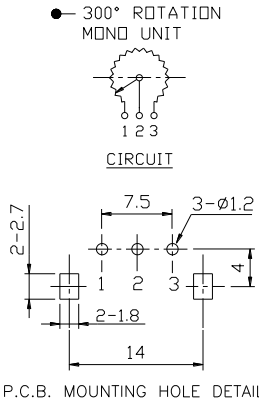
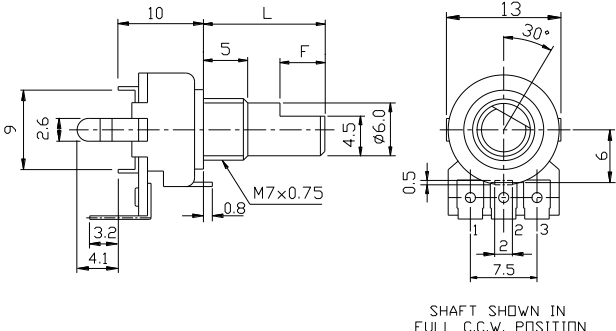
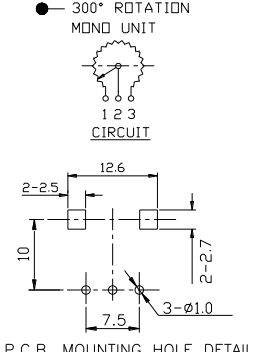
TAIWAN ALPHA ELECTRONIC CO., LTD.
Contact: sales@taiwanalpha.com

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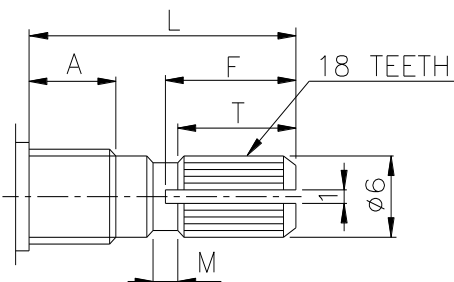
Order Code	Outline Drawing
RV120F-20 RV120F-21 	 SHAFT SHOWN IN FULL C.C.W. POSITION P.C.B. MOUNTING HOLE DETAIL
RV122F-10 	 SHAFT SHOWN IN FULL C.C.W. POSITION
RV122F-20 RV122F-21 	 SHAFT SHOWN IN FULL C.C.W. POSITION P.C.B. MOUNTING HOLE DETAIL
RV124F-20 RV124F-21 	 SHAFT SHOWN IN FULL C.C.W. POSITION P.C.B. MOUNTING HOLE DETAIL

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12mm Rotary Type, Metal Shaft Series

Order Code	Outline Drawing
RV120DF-20B1 	 SHAFT SHOWN IN FULL C.C.W. POSITION  P.C.B. MOUNTING HOLE DETAIL
RV120DF-40B1 	 SHAFT SHOWN IN FULL C.C.W. POSITION  P.C.B. MOUNTING HOLE DETAIL

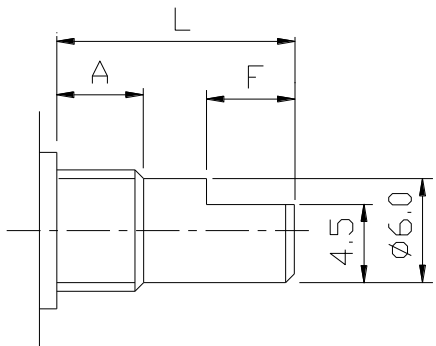
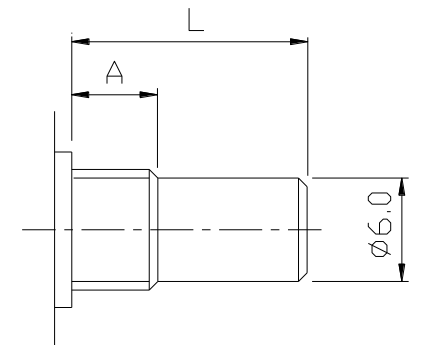
■ Metal Shaft Type

K Type	RV120DF-20B1 RV120DF-40B1	RV120F Other Models
	A : 5mm	A : 7mm
	Order Code	Order Code
	15K	15K
	20K	20K
	25K	25K

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■ Metal Shaft Type

F Type 	RV120DF-20B1 RV120DF-40B1	RV120F Other Models																							
	A : 5mm <table border="1"><thead><tr><th>Order Code</th><th>L</th><th>F</th></tr></thead><tbody><tr><td>15F</td><td>15</td><td>7</td></tr><tr><td>20F</td><td>20</td><td>12</td></tr><tr><td>25F</td><td>25</td><td>14</td></tr></tbody></table>	Order Code	L	F	15F	15	7	20F	20	12	25F	25	14	A : 7mm <table border="1"><thead><tr><th>Order Code</th><th>L</th><th>F</th></tr></thead><tbody><tr><td>15F</td><td>15</td><td>7</td></tr><tr><td>20F</td><td>20</td><td>12</td></tr><tr><td>25F</td><td>25</td><td>14</td></tr></tbody></table>	Order Code	L	F	15F	15	7	20F	20	12	25F	25
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R Type 	A : 5mm & 7mm <table border="1"><thead><tr><th>Order Code</th><th>L</th></tr></thead><tbody><tr><td>15R</td><td>15</td></tr><tr><td>20R</td><td>20</td></tr><tr><td>25R</td><td>25</td></tr></tbody></table>		Order Code	L	15R	15	20R	20	25R	25															
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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

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Alpha (Taiwan):

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[RV120F-20-15F-A5K-0075](#) [RV120F-20-15F-B5K-0075](#) [RV120F-20-15F-A1M-0075](#) [RV120F-10-15F-A50K-0075](#)
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