

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: $280 \pm 5^\circ$, RV09B series: $300 \pm 5^\circ$
Maximum Operating Voltage	50V AC
Insulation Resistance	100M Ω 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 $^\circ$ C~70 $^\circ$ 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	100K Ω
B1M	Linear/B	1M Ω
C500K	Rev-log/C	500K Ω

Taper: A, B and C

Resistance Value: 1K Ω to 500K Ω and 1M Ω

*Contact us for other requirements.

Click

Order Code	Description
Blank	No click
0C	With center click

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■ Model Description


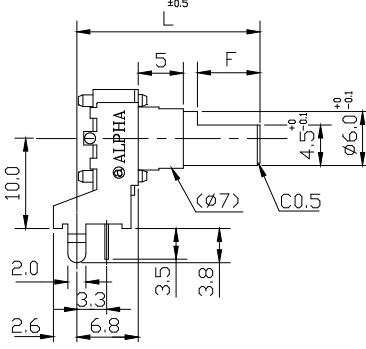
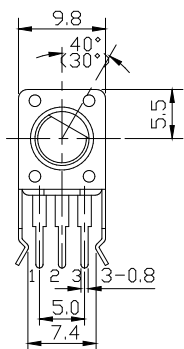
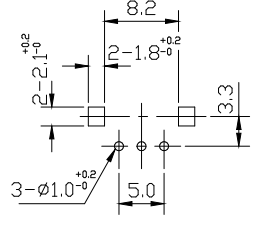

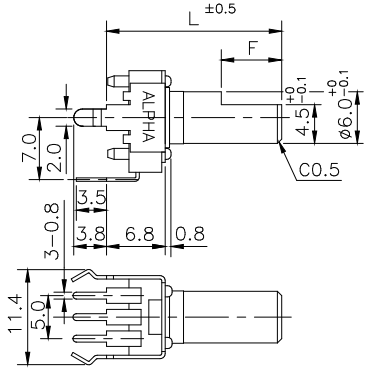
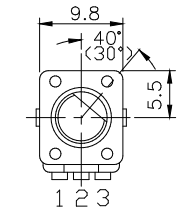
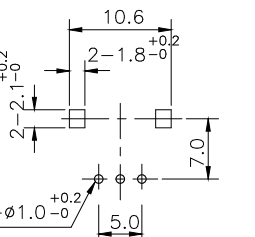
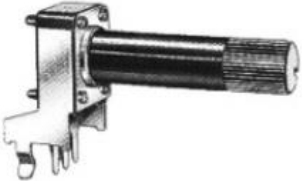
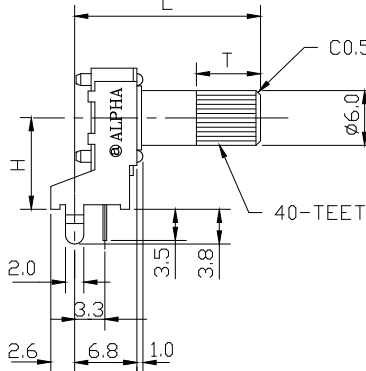
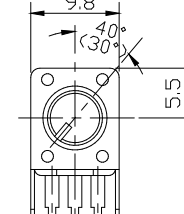
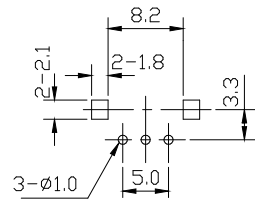

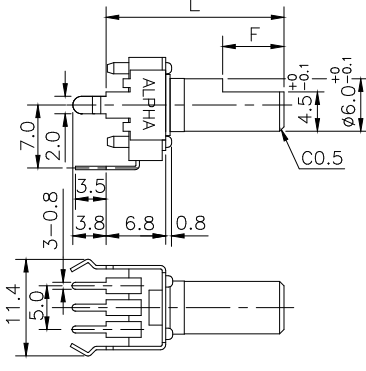
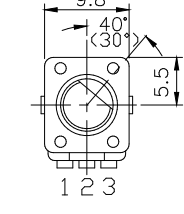
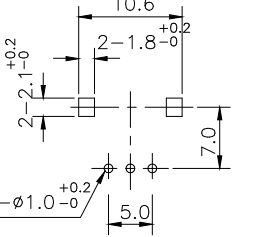
Model	Number of Unit	Terminal Type	With Sleeve or Bushing	Rotational Angle	Mounting Height
RV09ACF-20	Single unit	Horizontal	Sleeve	280°±5°	10 mm
RV09BCF-20	Single unit	Horizontal	Sleeve	300°±5°	10 mm
RV09ACF-40	Single unit	Vertical	Sleeve	280°±5°	7.0 mm
RV09BCF-40	Single unit	Vertical	Sleeve	300°±5°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

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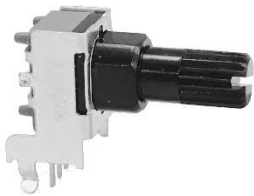
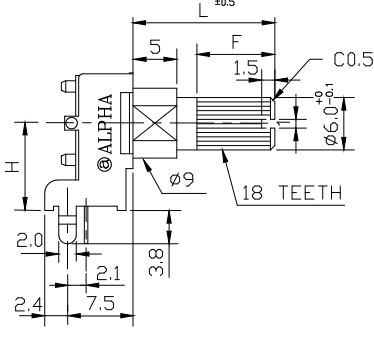
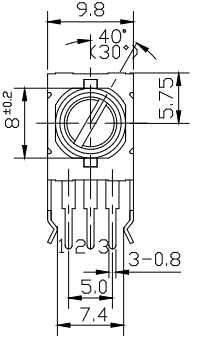
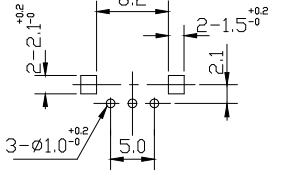

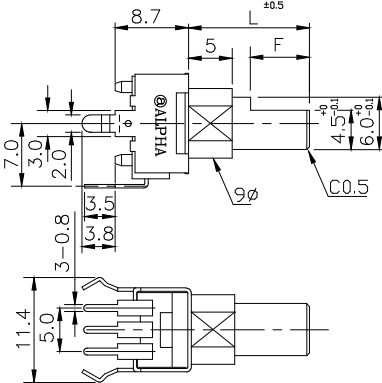
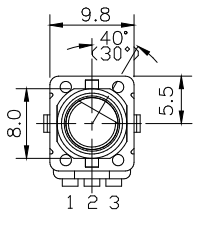
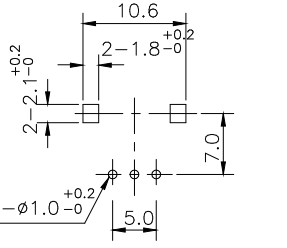

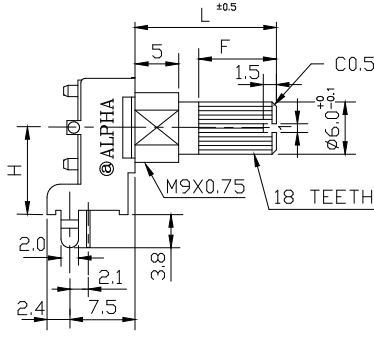
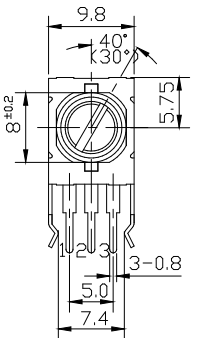
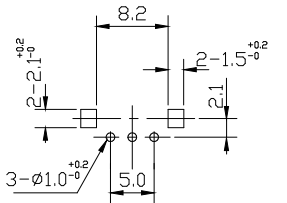

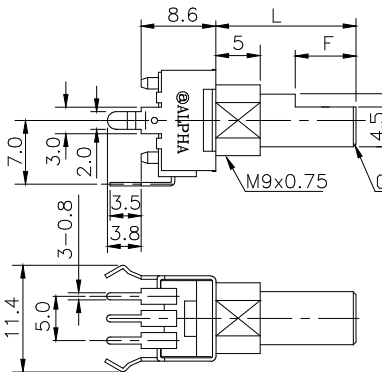
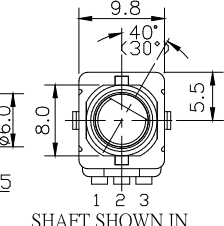
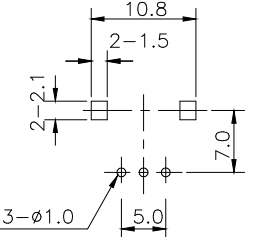
Order Code	Outline Drawing								
RV09ACF-20 RV09BCF-20 		SHAFT SHOWN IN FULL C.C.W. POSITION 	 P.C.B.MOUNTING HOLE DETAIL						
RV09ACF-40 RV09BCF-40 		 SHAFT SHOWN IN FULL C.C.W. POSITION	 P.C.B.MOUNTING HOLE DETAIL						
RV09AF-20,RV09BF-20 RV09AF-21,RV09BF-21 		 SHAFT SHOWN IN FULL C.C.W. POSITION	 P.C.B.MOUNTING HOLE DETAIL <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 RV09BF-40 		 SHAFT SHOWN IN FULL C.C.W. POSITION	 P.C.B.MOUNTING HOLE DETAIL						

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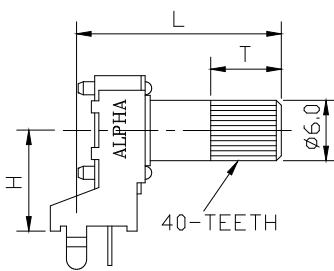
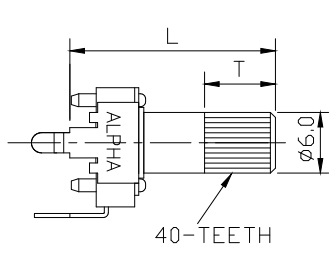
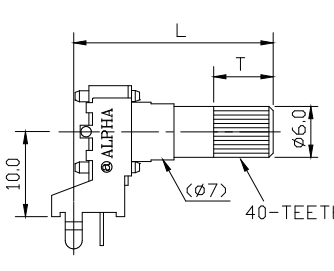
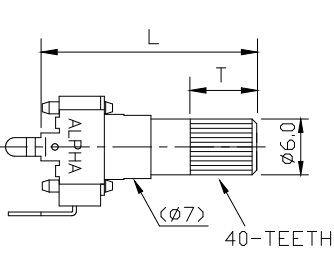
9mm Rotary Type, Snap-In, Insulated Shaft

Order code	Outline Drawing								
RV09AF-20E1N, RV09AF-21E1N RV09BF-20E1N, RV09BF-21E1N 		SHAFT SHOWN IN FULL C.C.W. POSITION 	 <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 RV09BF-40E1N 		SHAFT SHOWN IN FULL C.C.W. POSITION 	 <p>P.C.B.MOUNTING HOLE DETAIL</p>						
RV09AF-20E1, RV09BF-20E1 RV09AF-21E1, RV09BF-21E1 		SHAFT SHOWN IN FULL C.C.W. POSITION 	 <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 RV09BF-40E1 		SHAFT SHOWN IN FULL C.C.W. POSITION 	 <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 RV09BF-20(21)-(L)K	RV09AF-40-(L)K RV09BF-40-(L)K	RV09ACF-20-(L)K RV09BCF-20-(L)K	RV09ACF-40-(L)K RV09BCF-40-(L)K
			

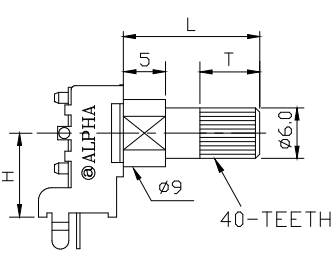
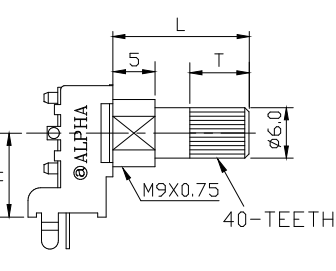
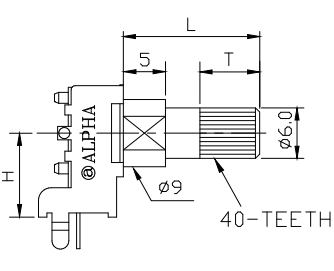
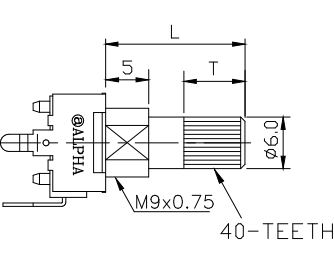
RV09AF, RV09ACF

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.

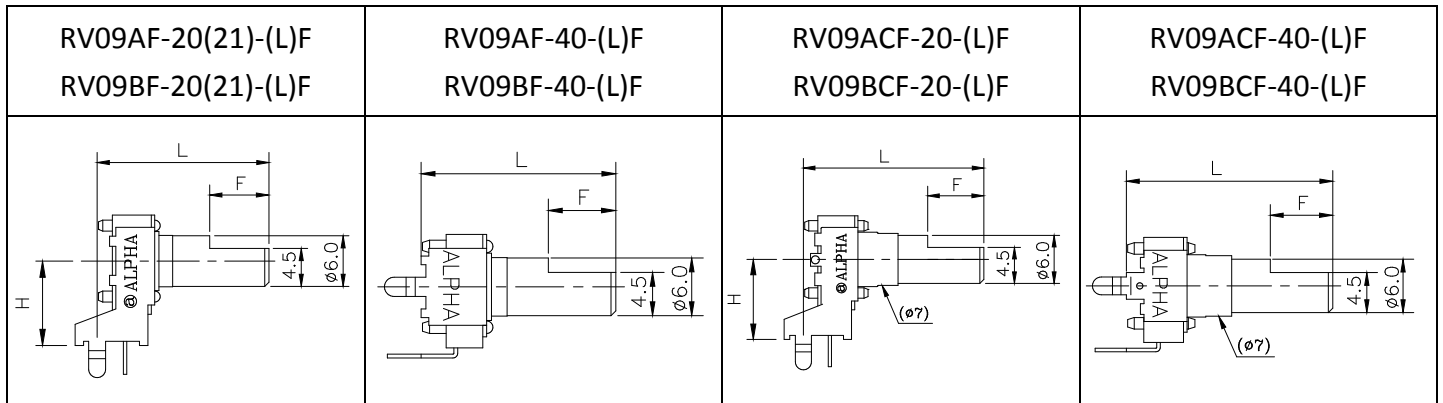
RV09AF-20E1N(21E1N)-(L)K RV09BF-20E1N(21E1N)-(L)K RV09AF-20E1(21E1)-(L)K RV09BF-20E1(21E1)-(L)K	RV09AF-40E1N-(L)K RV09BF-40E1N-(L)K RV09AF-40E1-(L)K RV09BF-40E1-(L)K
	
	

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

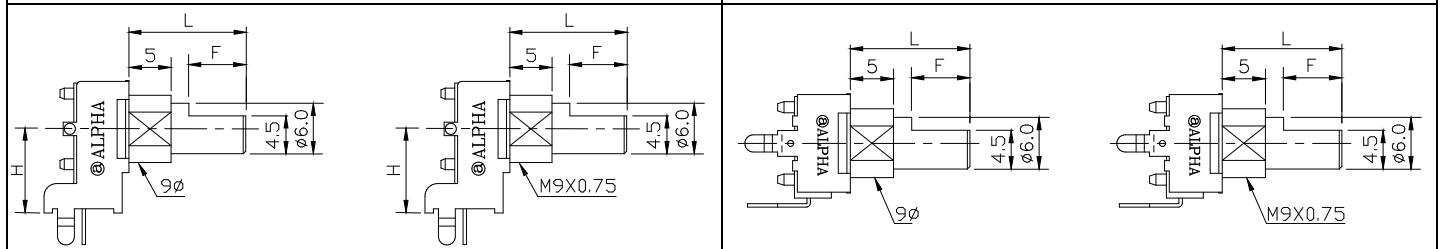
RV09BF, RV09BCF

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

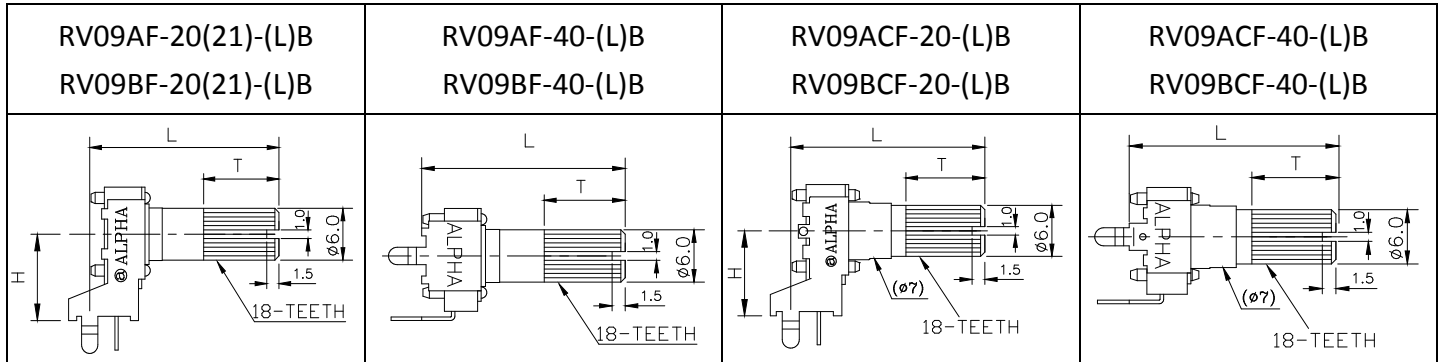
RV09BF

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

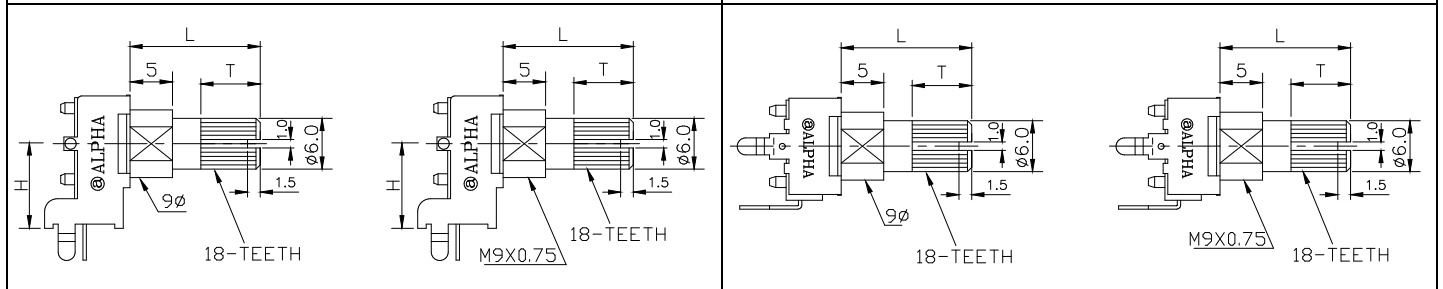
Order Code	15B	20F	25B	30B
L	15	20	25	30
T	7	7	7	7

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-20E1N(21E1N)-(L)B RV09BF-20E1N(21E1N)-(L)B RV09AF-20E1(21E1)-(L)B RV09BF-20E1(21E1)-(L)B	RV09AF-40E1N-(L)B RV09BF-40E1N-(L)B RV09AF-40E1-(L)B RV09BF-40E1-(L)B
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RV09AF	RV09BF																											
<table border="1"> <thead> <tr> <th>Order Code</th> <th>115B</th> <th>165B</th> <th>215B</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>11.5</td> <td>16.5</td> <td>21.5</td> </tr> <tr> <td>T</td> <td>7</td> <td>7</td> <td>7</td> </tr> </tbody> </table>	Order Code	115B	165B	215B	L	11.5	16.5	21.5	T	7	7	7	<table border="1"> <thead> <tr> <th>Order Code</th> <th>115B</th> <th>165B</th> <th>215B</th> <th>25B</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>11.5</td> <td>16.5</td> <td>21.5</td> <td>25</td> </tr> <tr> <td>T</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> </tr> </tbody> </table>	Order Code	115B	165B	215B	25B	L	11.5	16.5	21.5	25	T	7	7	7	7
Order Code	115B	165B	215B																									
L	11.5	16.5	21.5																									
T	7	7	7																									
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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Mouser Electronics

Authorized Distributor

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Alpha (Taiwan):

[RV09AF-40-20K-A10K](#) [RV09AF-40-20K-B10K](#) [RV09AF-40-20K-A55](#) [RV09AF-20-20K-A55](#) [RV09AF-20-20K-B55](#)
[RV09AF-40-20K-B55](#) [RV09AF-40-20K-B50K](#) [RV09AF-40-20K-A54](#) [RV09AF-20-20K-B16](#) [RV09AF-20-20K-B13](#)
[RV09AF-20-20K-B53](#) [RV09AF-20-20K-B23](#) [RV09AF-40-20K-A53](#) [RV09AF-40-20K-A16](#) [RV09AF-40-20K-A13](#)
[RV09AF-40-20K-A23](#) [RV09AF-40-20K-B100K](#) [RV09AF-20-20K-B100K](#) [RV09AF-20-20K-B10K](#) [RV09AF-20-20K-A14](#)
[RV09AF-40-20K-A100K](#) [RV09AF-20-20K-A15](#) [RV09AF-20-20K-A54](#) [RV09AF-20-20K-B50K](#) [RV09AF-40-20K-B1K](#)
[RV09AF-40-20K-B1M](#) [RV09AF-40-20K-B5K](#) [RV09AF-40-20K-B23](#) [RV09AF-20-20K-A23](#) [RV09AF-20-20K-A13](#)
[RV09AF-20-20K-A53](#) [RV09AF-20-20K-A16](#) [RV09AF-20-20K-B20](#) [RV09AF-40-30K-C10K](#) [RV09AF-40-30K-C100K](#)
[RV09AF-40-30K-B500K](#) [RV09AF-40-20K-A500K](#) [RV09AF-40-30K-A10K](#) [RV09AF-40-30K-B10K](#) [RV09AF-40-30K-](#)
[B100K](#) [RV09AF-40-30K-A500K](#) [RV09AF-40-30K-B50K](#) [RV09AF-40-30K-B5K](#) [RV09AF-40-30K-B1K](#) [RV09AF-40-30K-](#)
[B1M](#) [RV09AF-40-30K-A100K](#) [RV09AF-20-20K-A10K](#) [RV09AF-20-20K-B5K](#) [RV09AF-20-20K-A1M](#) [RV09AF-20-20K-](#)
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