

16mm Rotary Type, Metal Shaft Series

Application

- ✓ TV/Video, Audio, Musical instruments, Industrial control

Feature

- ✓ Suitable for various applications



■Specification

Total Rotational Angle	300±5°
Maximum Operating Voltage	150V AC
Insulation Resistance	100MΩ at DC500V
Dielectric Strength	AC 500V for 1 minute
Rotational Torque	20-200 gf.cm
Click Torque	30-250 gf.cm
Rotational Stop Strength of the Shaft	6 kgf.cm min
Push/Pull Strength of the Shaft	8 kgf for 3 sec
Rotation Life	15,000 cycles

■How to order

RV16A01F – 10 B1 – 15K – B50K – 3C

Model

Bushing Type

Order Code	φ	Order Code	Length
A	M6x0.75	1	5.0 mm
B	M7x0.75	2	6.5 mm
C	M8x0.75	3	7.0 mm
D	M3/8x0.75	4	8.0 mm
Blank	M7x0.75, 6.5 mm		

Metal Shaft Type

Click

Order code	Description
3	No click
3C, 3D, 3E, 3F	Center click , 11, 21, 41 clicks

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

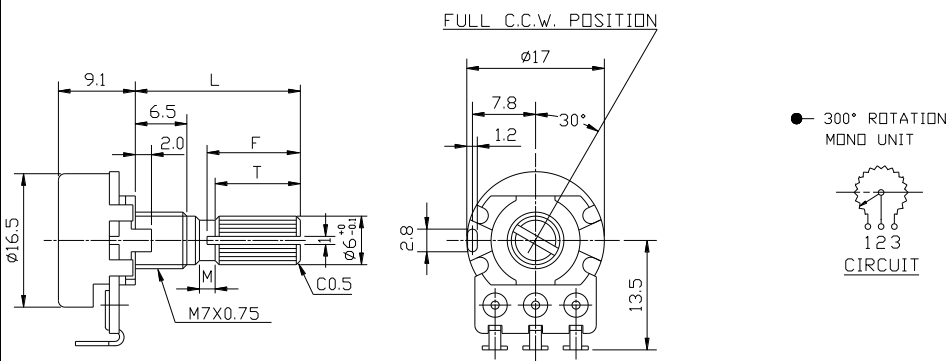
Resistance Value: 1KΩ to 500KΩ and 1MΩ

*Contact us for other requirements.

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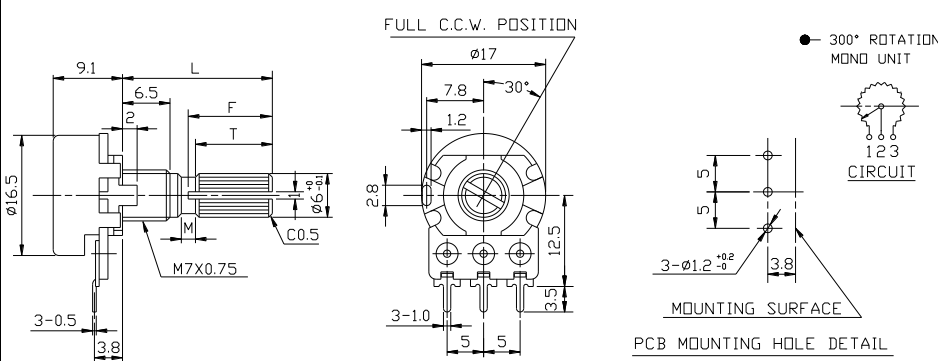
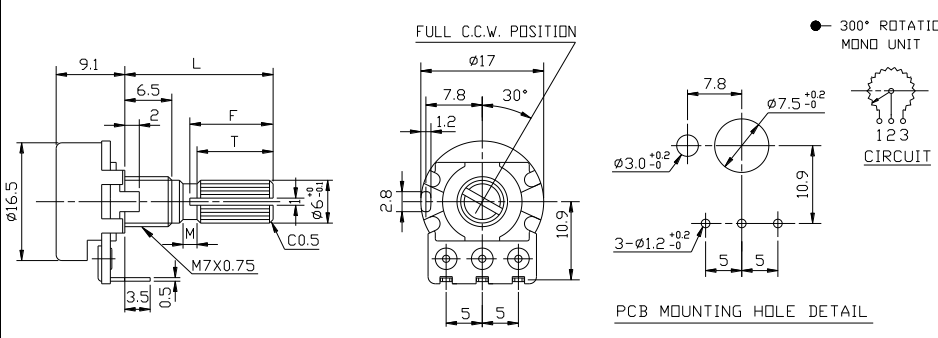
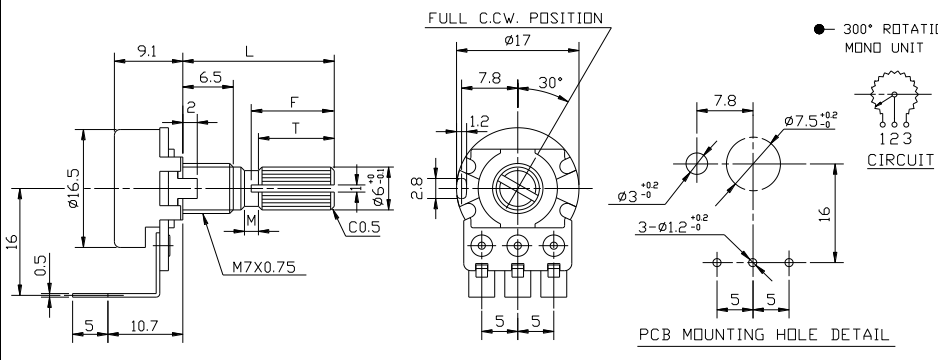
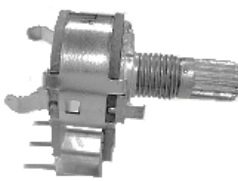
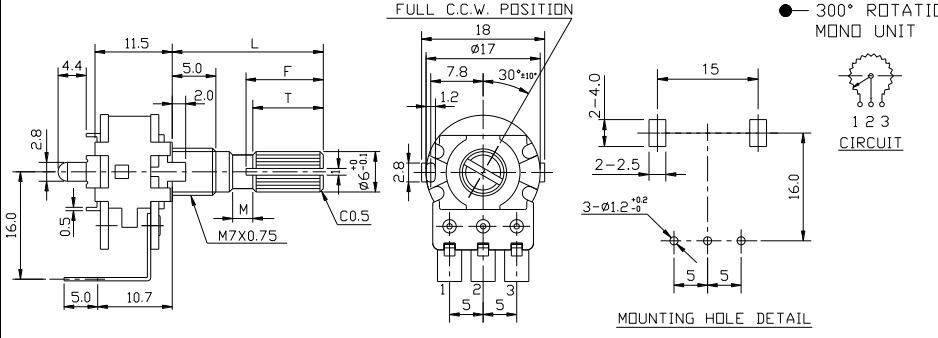
■Model Description

Model	Number of Unit	Switch Function	Terminal Type	With Sleeve or Bushing	Rotational Angle
RV16AF-10	Single unit	N/A	Solder lug	Metal bushing	300°±5°
RV16AF-20	Single unit	N/A	Horizontal	Metal bushing	300°±5°
RV16AF-30	Single unit	N/A	Vertical (Front)	Metal bushing	300°±5°
RV16AF-41	Single unit	N/A	Vertical	Metal bushing	300°±5°
RV16AD0F-41	Single unit with bracket	N/A	Vertical	Metal bushing	300°±5°
RV16ARF-20	Single unit with tap	N/A	Horizontal	Metal bushing	300°±5°
RV16A01F-10	Dual unit	N/A	Solder lug	Metal bushing	300°±5°
RV16A01F-20	Dual unit	N/A	Horizontal	Metal bushing	300°±5°
RV16A01F-30	Dual unit	N/A	Vertical (Front)	Metal bushing	300°±5°
RV16A01F-41	Dual unit	N/A	Vertical	Metal bushing	300°±5°
RV16AEF-20	Single unit with bracket	N/A	Horizontal	Metal bushing	300°±5°
RV16AE1F-20	Dual unit with bracket	N/A	Horizontal	Metal bushing	300°±5°
RV16AD1F-41	Dual unit with bracket	N/A	Vertical	Metal bushing	300°±5°

Order Code	Outline Drawing
RV16AF-10	 

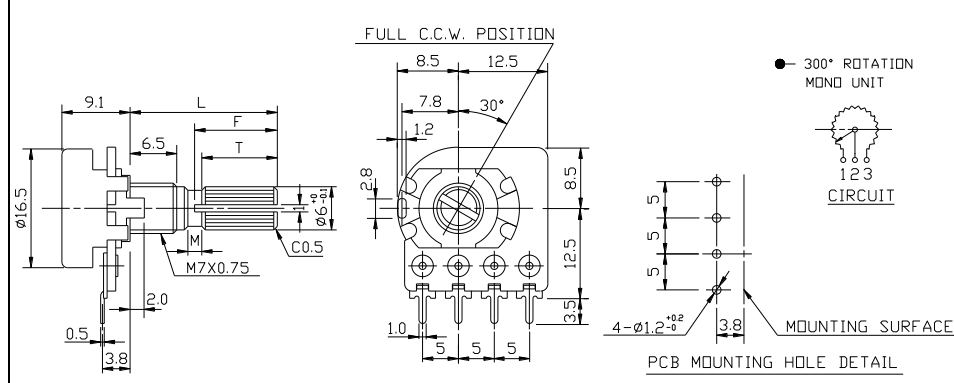
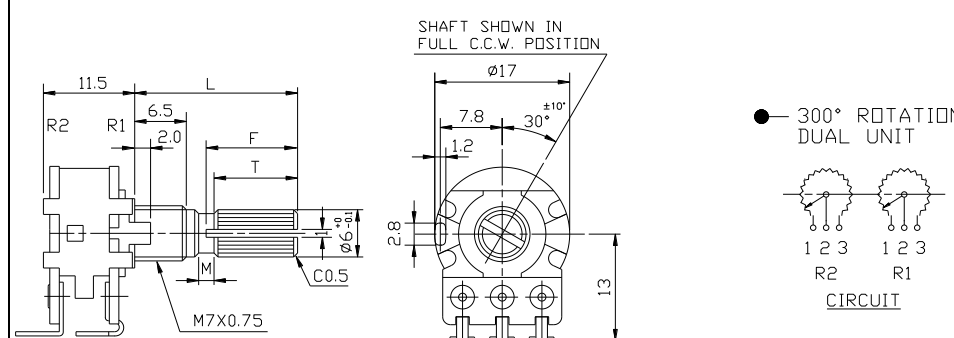
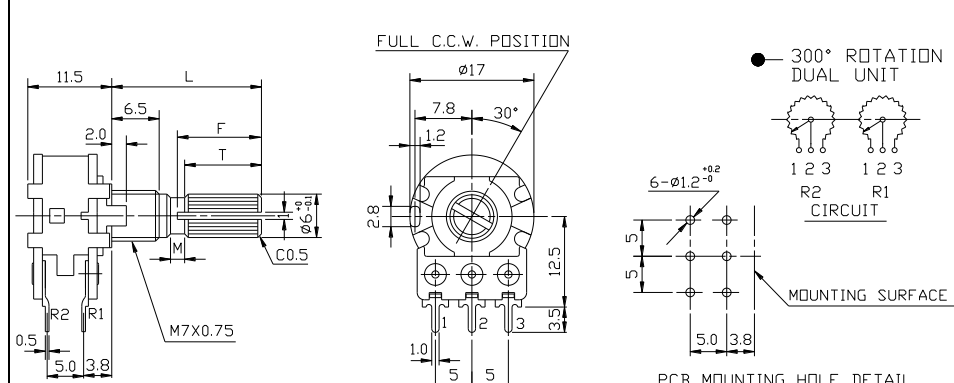
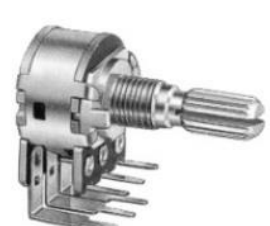
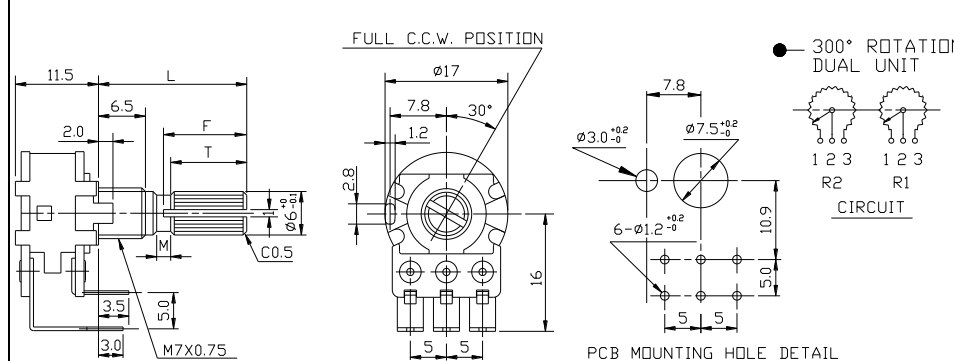
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Order Code	Outline Drawing
RV16AF-20	  RV16AF-20 potentiometer outline drawing. It shows a side view with dimensions: 9.1, 6.5, 2, L, F, T, M, C0.5, $\phi 16.5$, 3-0.5, 3.8, and a shaft diameter of $\phi 6-0.1$. The front view shows a 30° rotation, 30° C.C.W. position, $\phi 17$, 7.8, 1.2, 2.8, 12.5, 3-1.0, and 5. The PCB mounting hole detail shows a 300° rotation mono unit with a 123 circuit, 3-$\phi 1.2^{+0.2}_{-0}$ holes, and a mounting surface.
RV16AF-30	  RV16AF-30 potentiometer outline drawing. It shows a side view with dimensions: 9.1, 6.5, 2, L, F, T, M, C0.5, $\phi 16.5$, 3.5, 0.5, and a shaft diameter of $\phi 6-0.1$. The front view shows a 30° rotation, 30° C.C.W. position, $\phi 17$, 7.8, 1.2, 2.8, 10.9, 5, and 5. The PCB mounting hole detail shows a 300° rotation mono unit with a 123 circuit, $\phi 3.0^{+0.2}_{-0}$ and $\phi 7.5^{+0.2}_{-0}$ holes, 3-$\phi 1.2^{+0.2}_{-0}$ holes, and a mounting surface.
RV16AF-41	  RV16AF-41 potentiometer outline drawing. It shows a side view with dimensions: 9.1, 6.5, 2, L, F, T, M, C0.5, $\phi 16.5$, 16, 0.5, 5, 10.7, and a shaft diameter of $\phi 6-0.1$. The front view shows a 30° rotation, 30° C.C.W. position, $\phi 17$, 7.8, 1.2, 2.8, 16, 5, and 5. The PCB mounting hole detail shows a 300° rotation mono unit with a 123 circuit, $\phi 3^{+0.2}_{-0}$ and $\phi 7.5^{+0.2}_{-0}$ holes, 3-$\phi 1.2^{+0.2}_{-0}$ holes, and a mounting surface.
RV16AD0F-41	  RV16AD0F-41 potentiometer outline drawing. It shows a side view with dimensions: 11.5, 4.4, 5.0, 2.0, L, F, T, M, C0.5, $\phi 16.0$, 2.8, 0.5, 5.0, 10.7, and a shaft diameter of $\phi 6-0.1$. The front view shows a 30° rotation, 30° C.C.W. position, 18, $\phi 17$, 7.8, 1.2, 2.8, 15, 5, and 5. The mounting hole detail shows a 300° rotation mono unit with a 123 circuit, 3-$\phi 1.2^{+0.2}_{-0}$ holes, and a mounting surface.

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Order Code	Outline Drawing
RV16ARF-20	 
RV16A01F-10	 
RV16A01F-20	 
RV16A01F-30	 

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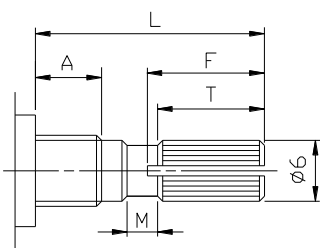
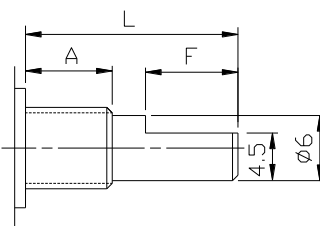
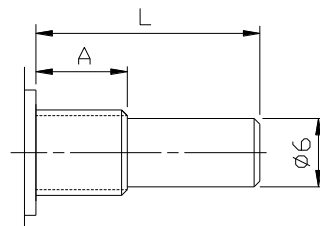
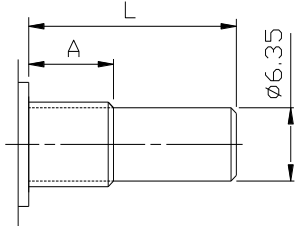
ALPHA

Order Code	Outline Drawing
RV16A01F-41	Technical drawing showing side, front, and PCB mounting hole details for RV16A01F-41. Side View: Dimensions include 11.5, 6.5, L, 16.0, 5.0, R2, R1, 5.0, 10.7, M7X0.75, C0.5, and Ø6.0. Front View: Dimensions include Ø17, 7.8, 1.2, 2.8, 5, 5, and FULL C.C.W. POSITION. PCB Mounting Hole Detail: Shows 6 holes arranged in two rows of three. Spacing includes 5, 5, 5.0, and 6-Ø1.2^{+0.2/-0}. Includes circuit diagram for DUAL UNIT with terminals 1, 2, 3, R2, R1.
RV16AEF-20	Technical drawing showing side, front, and PCB mounting hole details for RV16AEF-20. Side View: Dimensions include 9.5, 6.5, L, 16.5, 4.0, 7.5, 1.5, M7X0.75, C0.5, and Ø6. Front View: Dimensions include 12.5, 18.0, 18.5, 3, 1.0, 5, 5, 2, 3, and FULL C.C.W. POSITION. PCB Mounting Hole Detail: Shows 7 holes arranged in two rows (3 top, 4 bottom). Spacing includes 7.5, 3.9, 5.0, 18.0, and 7-Ø1.2^{+0.2/-0}. Includes circuit diagram for MONO UNIT with terminals 1, 2, 3.
RV16AE1F-20	Technical drawing showing side, front, and PCB mounting hole details for RV16AE1F-20. Side View: Dimensions include 12.0, 6.5, L, F, 16.5, 4.0, R2, R1, 7.5, 2.0, M7X0.75, C0.5, 4.5, and Ø6. Front View: Dimensions include 30°, 12.5, 18.0, 18.5, 6-1.0, 5, 5, 3, 3.5, and FULL C.C.W. POSITION. PCB Mounting Hole Detail: Shows 10 holes arranged in two rows of five. Spacing includes 5.0, 5.0, 18.0, 7.5, 5.0, 3.9, and 10-Ø1.2^{+0.2/-0}. Includes circuit diagram for DUAL UNIT with terminals 1, 2, 3, R2, R1.
RV16AD1F-41	Technical drawing showing side, front, and PCB mounting hole details for RV16AD1F-41. Side View: Dimensions include 11.5, 4.4, 6.5, L, F, 11.0, 5.0, 2.8, 0.5, 5.0, 10.7, M7X0.75, C0.5, 4.5, and Ø6. Front View: Dimensions include 18, Ø17, 7.8, 1.2, 30°, 2.8, 5, 5, 16, and FULL C.C.W. POSITION. PCB Mounting Hole Detail: Shows 6 holes arranged in two rows of three. Spacing includes 2-4.0, 15, 2-2.5, 11.0, 5.0, 5, 5, and 6-Ø1.2^{+0.2/-0}. Includes circuit diagram for DUAL UNIT with terminals 1, 2, 3, R2, R1.

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

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■ Metal Shaft Type

K Type																																							
	A : 5mm	A : 6.5mm	A : 8mm																																				
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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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