

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°
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	Dual 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
<p>RV16AF-20</p> 	 <p>Technical drawing of RV16AF-20 potentiometer. Side view shows dimensions: 9.1, 6.5, L, F, 4.5, $\phi 6$, C0.5, $\phi 16.5$, 3-0.5, 3.8, M7X0.75. Front view shows: FULL C.C.W. POSITION, $\phi 17$, 7.8, 30°, 1.2, 2.8, 12.5, 3-1.0, 5, 5. PCB mounting hole detail shows: 3-$\phi 1.2$, 5, 5, 3.8, MOUNTING SURFACE, PCB MOUNTING HOLE DETAIL. Legend: 300° ROTATION MONO UNIT, 1 2 3 CIRCUIT.</p>
<p>RV16AF-30</p> 	 <p>Technical drawing of RV16AF-30 potentiometer. Side view shows dimensions: 9.1, 6.5, L, F, 4.5, $\phi 6$, C0.5, $\phi 16.5$, 3.5, M7X0.75. Front view shows: FULL C.C.W. POSITION, $\phi 17$, 7.8, 30°, 1.2, 2.8, 10.9, 5, 5. PCB mounting hole detail shows: 3-$\phi 1.2$, 5, 5, 10.9, $\phi 7.5$, $\phi 3.0$, MOUNTING SURFACE, PCB MOUNTING HOLE DETAIL. Legend: 300° ROTATION MONO UNIT, 1 2 3 CIRCUIT.</p>
<p>RV16AF-41</p> 	 <p>Technical drawing of RV16AF-41 potentiometer. Side view shows dimensions: 9.1, 6.5, L, F, 4.5, $\phi 6.0$, C0.5, $\phi 16.5$, 16, 0.5, 5, 10.7, M7X0.75. Front view shows: FULL C.C.W. POSITION, $\phi 17$, 7.8, 30°, 1.2, 2.8, 5, 5. PCB mounting hole detail shows: 3-$\phi 1.2$, 5, 5, 16, $\phi 7.5$, $\phi 3$, MOUNTING SURFACE, PCB MOUNTING HOLE DETAIL. Legend: 300° ROTATION MONO UNIT, 1 2 3 CIRCUIT.</p>
<p>RV16ARF-20</p> 	 <p>Technical drawing of RV16ARF-20 potentiometer. Side view shows dimensions: 9.1, 6.5, L, F, 4.5, $\phi 6$, C0.5, $\phi 16.5$, 0.5, 12.0, 3.8, M7X0.75. Front view shows: FULL C.C.W. POSITION, 8.5, 12.5, $\phi 17$, 7.8, 30°, 1.2, 2.8, 8.5, 12.5, 1.0, 5, 5, 5, 3.5, 3.5. PCB mounting hole detail shows: 4-$\phi 1.2$, 5, 5, 5, 5, 3.8, MOUNTING SURFACE, PCB MOUNTING HOLE DETAIL. Legend: 300° ROTATION MONO UNIT, 1 2 3 CIRCUIT.</p>

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POTENTIOMETERS



16mm Rotary Type, Metal Shaft Series

Order Code	Outline Drawing
<p>RV16A01F-10</p> 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p> <p>● 300° ROTATION DUAL UNIT</p>  <p>CIRCUIT</p>
<p>RV16A01F-20</p> 	 <p>FULL C.C.W. POSITION</p> <p>● 300° ROTATION DUAL UNIT</p>  <p>CIRCUIT</p>  <p>PCB MOUNTING HOLE DETAIL</p>
<p>RV16A01F-30</p> 	 <p>FULL C.C.W. POSITION</p> <p>● 300° ROTATION DUAL UNIT</p>  <p>CIRCUIT</p>  <p>PCB MOUNTING HOLE DETAIL</p>
<p>RV16A01F-41</p> 	 <p>FULL C.C.W. POSITION</p> <p>● 300° ROTATION DUAL UNIT</p>  <p>CIRCUIT</p>  <p>PCB MOUNTING HOLE DETAIL</p>

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POTENTIOMETERS



16mm Rotary Type, Metal Shaft Series

Order Code	Outline Drawing
<p>RV16AEF-20</p> 	 <p>Technical drawing of RV16AEF-20 potentiometer. Dimensions include: 9.5, L, 6.5, F, 4.5, $\phi 6$, 16.5, 4.0, 7.5, 1.5, 1.9, M7X0.75, C0.5, 30°, 12.5, 3.5, 18.0, 18.5, 7.5, 3.9, 5.0, 18.0, 7.5, 3.9. PCB mounting hole detail shows 7-$\phi 1.2^{+0.02}_{-0}$ holes. Circuit diagram shows a 300° ROTATION MONO UNIT with terminals 1, 2, 3.</p>
<p>RV16AE1F-20</p> 	 <p>Technical drawing of RV16AE1F-20 potentiometer. Dimensions include: 12.0, L, 6.5, F, 4.5, $\phi 6$, 16.5, 4.0, 7.5, 2.0, 1.9, M7X0.75, C0.5, 30°, 12.5, 3.5, 18.0, 18.5, 6-1.0, 5.0, 5, 10-$\phi 1.2^{+0.02}_{-0}$, 7.5, 5.0, 3.9, 5.0, 18.0, 5.0, 3.9. PCB mounting hole detail shows 10-$\phi 1.2^{+0.02}_{-0}$ holes. Circuit diagram shows a 300° ROTATION DUAL UNIT with terminals 1, 2, 3, R2, R1.</p>
<p>RV16AD1F-41</p> 	 <p>Technical drawing of RV16AD1F-41 potentiometer. Dimensions include: 11.5, L, 6.5, F, 4.5, $\phi 6$, 11.0, 5.0, 10.7, 5.0, 4.4, 2.8, 0.5, M7X0.75, C0.5, 30°, 18, $\phi 17$, 7.8, 1.2, 16, 2.8, 15, 11.0, 5.0, 2-4.0, 2-2.5, 6-$\phi 1.2^{+0.02}_{-0}$, 5, 5. PCB mounting hole detail shows 6-$\phi 1.2^{+0.02}_{-0}$ holes. Circuit diagram shows a 300° ROTATION DUAL UNIT with terminals 1, 2, 3, R2, R1.</p>

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■ Metal Shaft Type

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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

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