

16mm Diameter, Single-Turn, Carbon Industrial Panel Controls



Features_

16mm diameter, single-turn industrial panel controls
 Carbon film element
 Linear or audio tapers
 Single and tandem units, single shaft; dual unit, dual shaft
 Optional switch, center detent, and shaft lock available
 3.2mm diameter metal shafts in slot, flat or round end styles
 Standard 10mm or 15mm shaft length
 Panel or PC board mounting styles
 Lug or pin terminals
 Right angle mount pin configurations

Specifications_____

Electrical

Standard Resistance Range $\dots B = 100\Omega$ to $2M\Omega$ A,C = $2k\Omega$ to $2M\Omega$
Resistance Tolerance ±10% standard
End Resistance $\dots \dots 3\Omega$ max.
$\begin{array}{l} \textbf{Resistance Taper} \ldots & B = \text{linear; } A = \text{CW audio (logarithm);} \\ & C = \text{CCW audio (logarithm)} \end{array}$
Peak Noise (C.R.V.) 3% or 3Ω , whichever is greater
Power Rating $\dots B = 0.1$ watt; A,C = 0.05 watt at +40°C, 0 watt at +85°C
Maximum Input Voltage 200VDC or power rating, whichever is smaller
Insulation Resistance 100 M Ω minimum at 500 VDC
Dielectric Strength 500VAC, 1 minute
Adjustment Travel

Mechanical

Mechanical Travel
Shaft Torque Single Unit 20.4 to 204 gf • cm (0.283 to 2.828 oz • in) Other Units 20.4 to 357 gf • cm (0.283 to 4.949 oz • in)
Stop Strength
Mounting Nut Torque 10.2 kgf•cm (141.4 oz•in) max.
Solderability 235°C, 5 seconds
Marking Model type, taper, resistance code, terminal identification, date code

Environmental

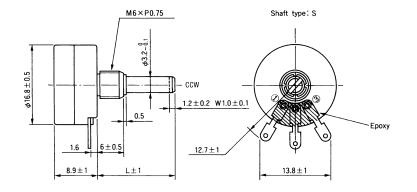
Temperature Range – 10°C to +85°C
Low Temperature Exposure $\dots -10^{\circ}$ C, 1 hour without load $\Delta T/R \leq \pm 2.5\%$
Load Life +40°C, 90 minutes on, 30 minutes off, 1,000 hours with rated load $\Delta T/R \leq \pm 15\%$
Moisture Resistance
Thermal Shock
Shock
Vibration
Soldering Heat Resistance $\dots 350^{\circ}$ C, 3 seconds; 260°C, 5 seconds (PCB units) $\Delta T/R \leq \pm 2\%$
Rotational Life 15,000 cycles (500 cycles for shaft lock models only) without load $\Delta T/R \cong \pm 10\%$
Standard Rotary Switches
Switch Rating
Contact Resistance 0.05Ω max.
Operating Torque 1,530 gf•cm (21.21 oz•in) max.

Operating Life 10,000 cycles without load

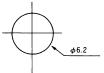
 $\Delta T/R$ = Total Resistance Change

Dimensions

RV16YN & RV16YN-4C (with Center Detent) Panel Mount, Single Unit, Single Shaft Right Angle Ear-Lug Terminals

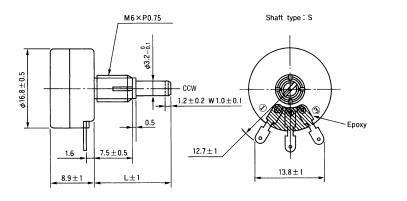


Recommended Panel Mounting Hole Unit: mm



RV16YL

Panel Mount, Single Unit, Single Shaft with Shaft Lock Right Angle Ear-Lug Terminals

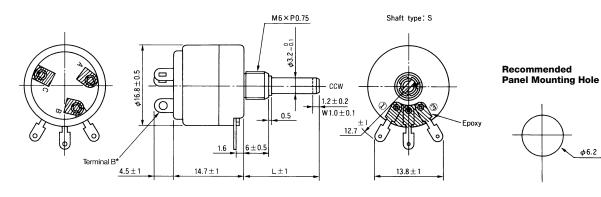


Recommended Panel Mounting Hole



RV16YNMH & RV16YNSH

Panel Mount, Single Unit with Switch, Single Shaft Right Angle Ear-Lug Terminals, Rear Exit Lug Terminals for 0.5A SPDT or SPST Switch



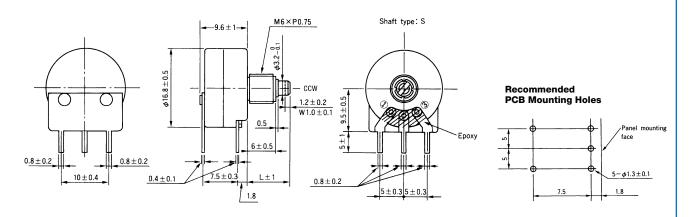
*The SPST switch (SH code designation) does not have a B terminal.

Dimensions

RV16YP

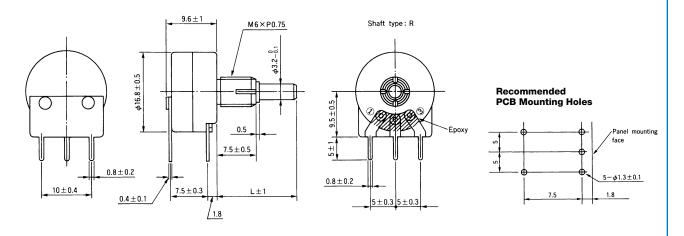
PCB Mount, Single Unit, Single Shaft

Right Angle Mount Pin Terminals, 3-Pin Inline Pattern, 2-Pin Standoff Rear Support Bracket



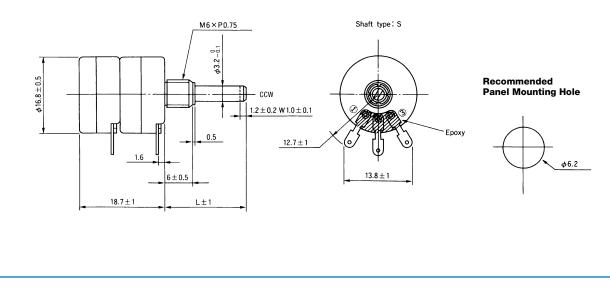
RV16YPL

PCB Mount, Single Unit, Single Shaft with Shaft Lock Right Angle Mount Pin Terminals, 3-Pin Inline Pattern, 2-Pin Standoff Rear Support Bracket



RV16YG

Panel Mount, Ganged Tandem Unit, Single Shaft Right Angle Ear-Lug Terminals on Each Unit



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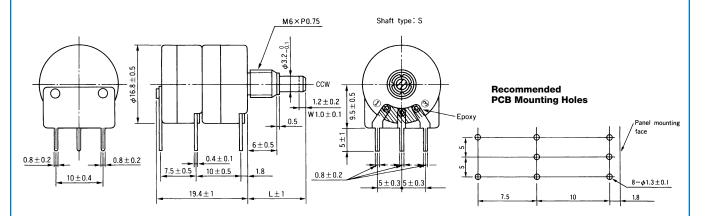
Unit: mm

Dimensions

RV16YGP

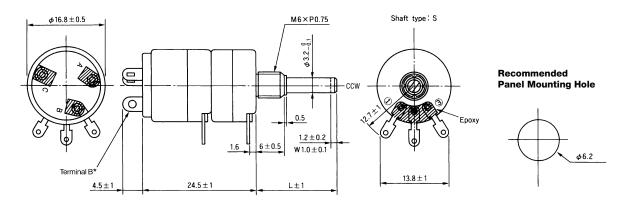
PCB Mount, Ganged Tandem Unit, Single Shaft

Right Angle Mount Pin Terminals on Each Unit, 3-Pin Inline Pattern, 2-Pin Standoff Rear Support Bracket



RV16YGMH

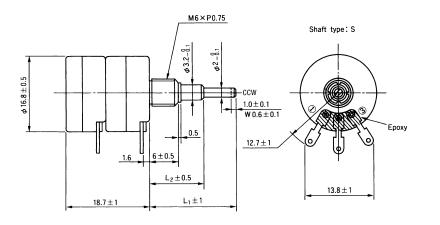
Panel Mount, Ganged Tandem Unit with Rear Unit Switch, Single Shaft Right Angle Ear-Lug Terminals on Each Unit, Rear Exit Lug Terminals for 0.5A SPDT Switch



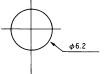
*Connect the A and C terminals only for a SPST switch. Do not use the B terminal.

RV16YD

Panel Mount, Dual Unit, Dual Concentric Shaft Right Angle Ear-Lug Terminals on Each Unit



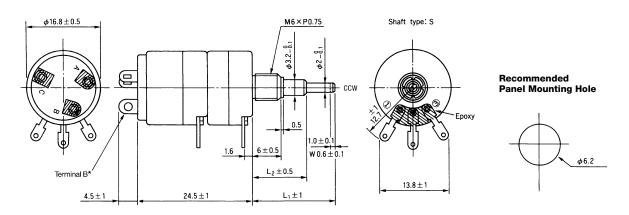
Recommended Panel Mounting Hole Unit: mm



Dimensions

RV16YDMH & RV16YDSH

Panel Mount, Dual Unit with Rear Unit Switch, Dual Concentric Shaft Right Angle Ear-Lug Terminals on Each Unit, Rear Exit Lug Terminals for 0.5A SPDT or SPST Switch



*The SPST switch (SH code designation) does not have a B terminal.

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Unit: mm

Part Numbering System

D\	, .	16	Y	N	-4C	мн	I 20	e	P	102	к		
			+		-40		1 20	S	B	103	1		NOTE: FMS = From Mounting Surface
													Resistance Tolerance: $\mathbf{K} = \pm 10\%$ (standard).
													Resistance Code: Expressed in ohms. A three digit code where the first two digits are significant figures, and the third digit indicates the number of zeros that follow these figures (i.e., $100 = 10\Omega$; $101 = 100\Omega$; $102 = 1,000\Omega$; $103 = 10,000\Omega$; $105 = 1,000,000\Omega$). See table for standard resistance values.
												>	For Single Unit: Specify taper and resistance code as shown.
										L		~~>	For Ganged Tandem Unit or Dual Unit: Specify a taper code and resistance code for each unit starting with the front unit followed by the rear unit. If both units have the same taper and resistance codes, add "X2" suffix per example below. Examples: B103A503 or if both units are the same: B103X2
													 Resistance Taper: B = Linear. A = CW Audio (logarithm). C = CCW Audio (logarithm).
													Shaft End Style: S = Slotted; F = Flatted; R = Round.
												>	 For Single Shaft: Specify the shaft length (FMS) and shaft end style as shown.
								L				>	For Dual Concentric Shafts: Specify the shaft length (FMS) and shaft end style for the inner shaft followed by the shaft length (FMS) and shaft end style for the outer shaft. Use a dash (-) to separate the code groups for the inner and outer shaft specifications. Example: 30R-20R
							L						 Standard Shaft Length: 10 = 10mm FMS. 15 = 15mm FMS. Up to 30mm shaft length available (special order).
													Switch Type: MH = SPDT, 110VAC, 0.5A, Rear Exit Lug Terminals. SH = SPST, 110VAC, 0.5A, Rear Exit Lug Terminals. Blank = No Switch.
												->	Detent: -4C = Center Detent. Blank = No Detent.
												~	 Style: N = Panel Mount, Single Unit, Single Shaft, Right Angle Ear-Lug Terminals. L = Panel Mount, Single Unit, Single Shaft with Shaft Lock, Right Angle Ear-Lug Terminals. P = PCB Mount, Single Unit, Single Shaft, Right Angle Mount Pin Terminals, 3-Pin Inline Pattern, 2-Pin Standoff Rear Support Bracket. PL = PCB Mount, Single Unit, Single Shaft with Shaft Lock, Right Angle Mount Pin Terminals, 3-Pin Inline Pattern, 2-Pin Standoff Rear Support Bracket. G = Panel Mount, Ganged Tandem Unit, Single Shaft, Right Angle Ear-Lug Terminals on Each Unit. GP = PCB Mount, Ganged Tandem Unit, Single Shaft, Right Angle Mount Pin Terminals on Each Unit. GP = PCB Mount, Ganged Tandem Unit, Single Shaft, Right Angle Mount Pin Terminals on Each Unit. GP = PCB Mount, Dual Unit, Dual Concentric Shaft, Right Angle Far Lug Terminals on Each Unit.
												_	Ear-Lug Terminals on Each Unit. Operating Temperature Range: $Y = -10^{\circ}C$ to $+85^{\circ}C$.
													Size: 16 = 16mm Diameter.
													TOCOS Series Name: RV = Carbon Film Element.
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Standard Resistance Values and Part Numbering Codes

Standard Nominal Total Resistance Values and Part Numbering Codes

Resistance (Ω)	Code	Resistance (Ω)	Code	Resistance (Ω)	Code	Resistance (Ω)	Code	Resistance (Ω)	Code
100	101	1,000	102	10,000	103	100,000	104	1,000,000	105
200	201	2,000	202	20,000	203	200,000	204	2,000,000	205
500	501	5,000	502	50,000	503	500,000	504		

Refer to Shaft End Styles Specifications and Hardware Specifications for details and availability. For additional information, refer to Guidelines and Precautions for Using Panel Controls.

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