RV16 Series



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

Shaft Torque

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

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 3.06 kgf cm (42.42 oz in) max.

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

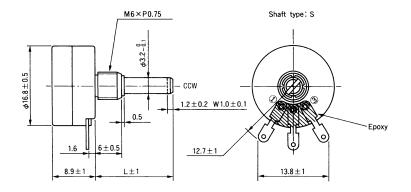
Temperature Range −10°C to +85°C
Low Temperature Exposure -10° C, 1 hour without load $\Delta T/R \leq \pm 2.5\%$
Load Life +40°C, 90 minutes on, 30 minutes off, 1,000 hours with rated load $\Delta T/R \leqq \pm 15\%$
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Thermal Shock
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lll} \mbox{Vibration} & $
Soldering Heat Resistance
Rotational Life 15,000 cycles (500 cycles for shaft lock models only) without load $\Delta T/R \leqq \pm 10\%$
Standard Rotary Switches
$\textbf{Switch Rating} \dots \dots 110 \text{VAC}, 0.5 \text{A}, \text{SPDT or SPST}$
$ \mbox{\bf Contact Resistance} \ \dots \ \dots \ 0.05\Omega \ \mbox{max}. $
Operating Torque 1,530 gf • cm (21.21 oz • in) max.

Operating Life 10,000 cycles without load

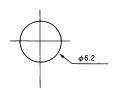
 $\Delta T/R$ = Total Resistance Change

Unit: mm

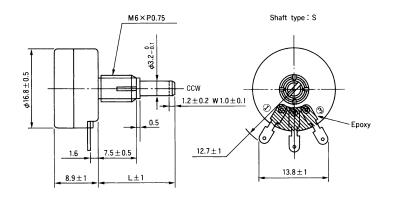
RV16YN & RV16YN-4C (with Center Detent)
Panel Mount, Single Unit, Single Shaft
Right Angle Ear-Lug Terminals



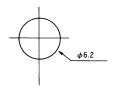
Recommended Panel Mounting Hole



RV16YL
Panel Mount, Single Unit, Single Shaft with Shaft Lock
Right Angle Ear-Lug Terminals

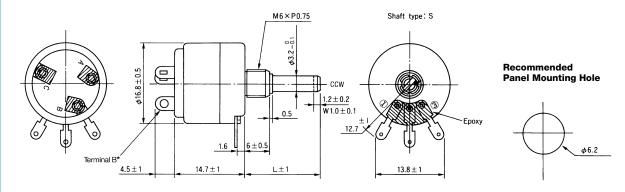


Recommended Panel Mounting Hole



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

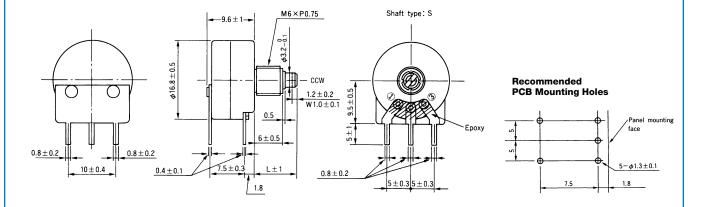


*The SPST switch (SH code designation) does not have a B terminal.

RV16YP Unit: mm

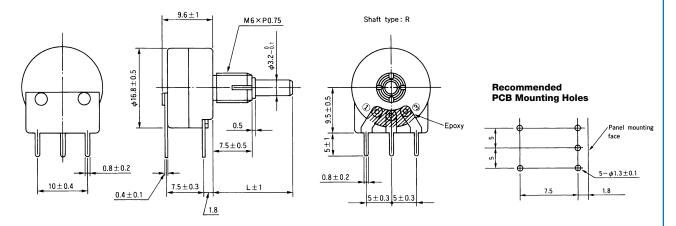
PCB Mount, Single Unit, Single Shaft

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



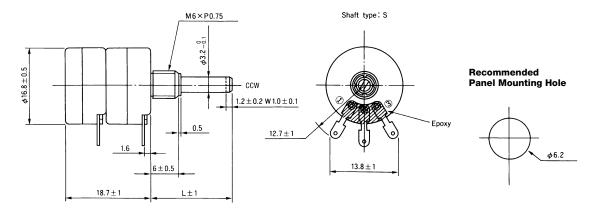
RV16YPL

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

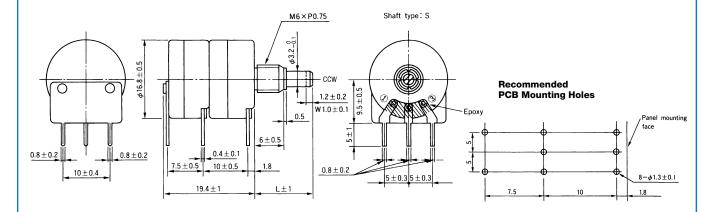
Panel Mount, Ganged Tandem Unit, Single Shaft Right Angle Ear-Lug Terminals on Each Unit



RV16YGP Unit: mm

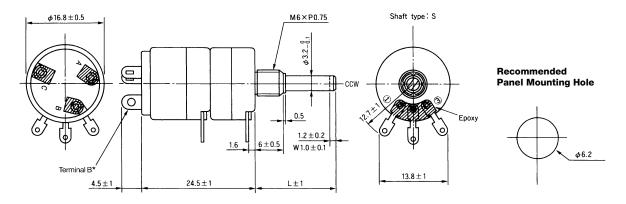
PCB Mount, Ganged Tandem Unit, Single Shaft

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



RV16YGMH

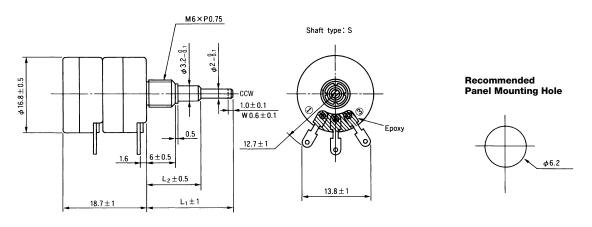
Panel Mount, Ganged Tandem Unit with Rear Unit Switch, Single Shaft Right Angle Ear-Lug Terminals on Each Unit, Rear Exit Lug Terminals for 0.5A SPDT Switch



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

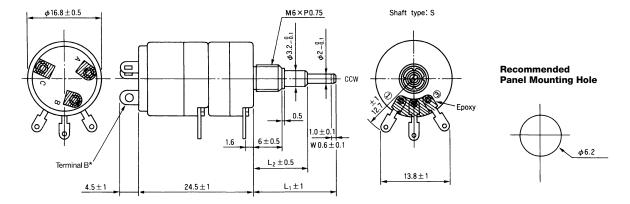
RV16YD

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



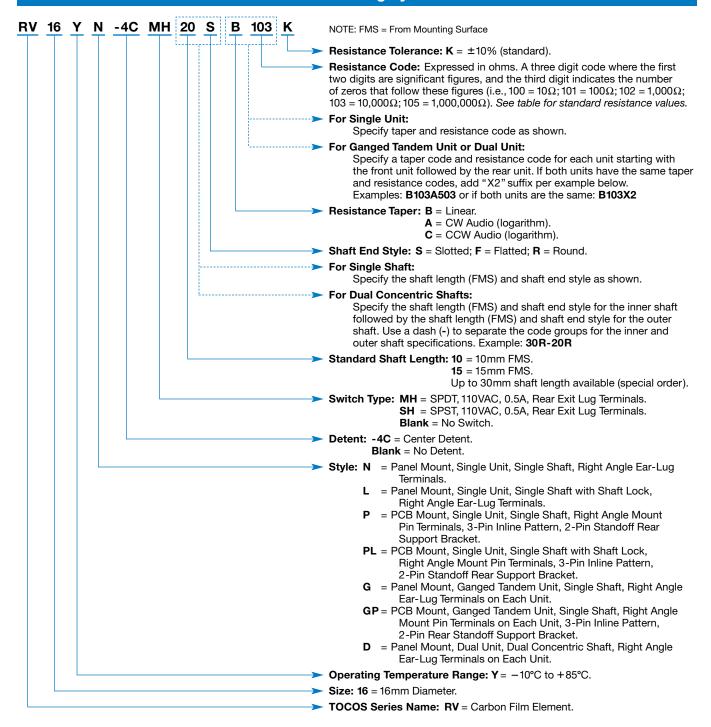
RV16YDMH & RV16YDSH

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.

Part Numbering System



Standard Resistance Values and Part Numbering Codes

Standard Nominal Total Resistance Values and Part Numbering Codes

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.