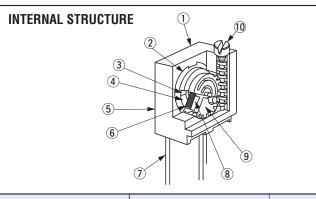


FEATURES

- RoHS compliant
- Fine setting is possible
- Sealed construction (Washable: Refer to 698)



Part name		Material	Flammability		
1	Housing	Polybutyleneterephthalate	UL94V-0		
2	Base element	Ceramic			
3	Electrode	Ag-Pd cermet			
4	Resistive element	RuO ₂ cermet			
5	Adhesive	Ероху	_		
6	Wiper	Multi metal alloy			
7	Terminal pin	Copper, Tin-plated			
8	Rubber cushion	Silicone rubber			
9	Rotor gear	Polyamide	UL94HB		
!0	Shaft	Brass, Nickel-plated	_		

PART NUMBER DESIGNATION

P: Side adjustment

LIST OF PART NUMBERS

Adjustment	Shape of terminal	Form of packaging	Pieces in package	
Adjustment position	(Top view)	Plastic bag		
Top adjustment	3 0 0 0	RJ-5EW		
Side adjustment	③ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	RJ-5EX	50 pcs./pack	
(† Adjustment direction)				

ELECTRICAL CHARACTERISTICS

Nominal resistance range	10 Ω ~ 2 M Ω	
Resistance tolerance	± 10 %	
Power ratings	0.25 W (85 °C) 0 W (120 °C)	
Resistance law	(B) Linear law	
Maximum input voltage	DC200 V or power rating, whichever is smaller	
Maximum wiper current	100 mA or power rating, whichever is smaller	
Effective electrical turn	11 turns	
End resistance	1 % or 2 Ω , whichever is greater	
C.R.V.	1 % or 3 Ω , whichever is greater	
Operating temp. range	— 55 ~ 120 °C	
Temp. coefficient	10 Ω ~ 50 Ω : \pm 250 10°/°C maximum 100 Ω ~ 2 M Ω : \pm 100 10°/°C maximum	
Insulation resistance	1000 M Ω minimum (DC500 V)	
Dielectric strength	AC600 V, 60 s	
Net weight	Approx. 0.37 g	

<Nominal resistance values>

→ 10 Ω	→ 20 Ω	50 Ω	100 Ω	200 Ω	500 Ω	1 k Ω	2 k Ω	5 k Ω
10 k Ω	20 k Ω	50 k Ω	100 k Ω	200 k Ω	500 k Ω	1 M Ω	2 M Ω	

Fig. 1

- $\fint \%$ The above part numbers are all available with the respective combination of <Nominal resistance values> (Fig. 1).
- * Verify the above part numbers when placing orders.

The products indicated by) mark are manufactured upon receipt of order basis.

■ MECHANICAL CHARACTERISTICS

Mechanical turn	14 turns	
Operating torque	20 mN·m {204 gf·cm} maximum	
Mechanical stop	Clutch action	
Rotational life	200 cycles $\begin{array}{c} 200 \text{ cycles} \\ 10 \ \Omega \sim 200 \ \Omega \ [\triangle \text{ R/R} \leq \pm \ (0.5 \ \Omega + 3 \ \%)] \\ 500 \ \Omega \sim 2 \ \text{M} \ \Omega \ [\triangle \text{ R/R} \leq \pm \ (0.5 \ \Omega + 2 \ \%)] \end{array}$	
Terminal strength	10 N {1.02 kgf} minimum (Tensile strength)	
Thrust to shaft	5 N {0.51 kgf} minimum	
Solderability	245 ± 3 °C, 2 ~ 3 s	

{ }: Reference only

■ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Specifications	
Thermal shock	— 65 ~ 125 °C (0.5 h), 5 cycles	[Δ R/R ≦ 1 %] [S.S. ≦ 1 %]	
Humidity	— 10 ~ 65 °C (80 ~ 98 %), 10 cycles, 240 h	[∆ R/R ≤ 1 %]	
Shock	981 m/s², 6 ms 6 directions for 3 times each	[, D/D < d 0/]	
Vibration	(Amplitude) 1.52 mm or (Acceleration) 196 m/s², 10 ~ 2000 Hz, 3 directions, 12 times each	$\begin{bmatrix} \triangle & R/R \le 1 \% \\ [S.S. \le 1 \%] \end{bmatrix}$	
Load life	85 °C, 0.25 W, 1000 h	[∆ R/R ≦ 2 %] [S.S. ≦ 1 %]	
Low temp. operation	— 55 °C, 2 h	[∆ R/R ≦ 2 %]	
High temp. exposure	120 °C, 250 h	[S.S. ≦ 2 %]	
Immersion seal	85 °C, 60 s	No leaks (No continuous bubbles)	
Soldering heat	Flow 260 \pm 3 °C, 5 ~ 6 s, two times maximum Manual soldering 380 \pm 10 °C, 3 ~ 4 s	[Δ R/R ≦ 1 %]	

 Δ R/R : Change in total resistance S.S. : Setting stability

MAXIMUM INPUT RATINGS

Nominal resistance values (Ω)	Resistance code	Maximum input voltage (V)	Maximum wiper current (mA)
 → 10 → 20 50 100 200 500 	100	1.00	100
	200	2.00	100
	500	3.53	70.7
	101	5.00	50.0
	201	7.07	35.3
	501	11.1	22.3
1 k	102	15.8	15.8
2 k	202	22.3	11.1
5 k	502	35.3	7.07
10 k	103	50.0	5.00
20 k	203	70.7	3.53
50 k	503	111	2.23
100 k 200 k 500 k 1 M 2 M	104 204 504 105 205	158 200 200 200 200 200	1.58 1.00 0.40 0.20 0.10

The products indicated by
→ mark are manufactured upon receipt of order basis.

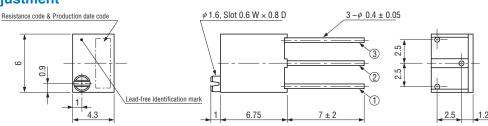
2

-CW rotation

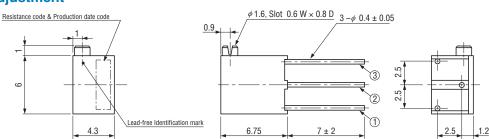
OUTLINE DIMENSIONS

Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

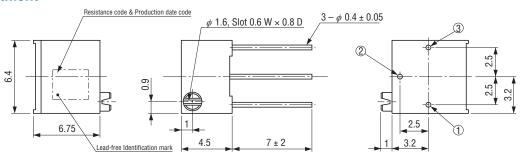
RJ-5EW Top adjustment



RJ-5EXSide adjustment



RJ-5EP Side adjustment



PACKAGING SPECIFICATIONS

<Bulk pack specifications>

- Unit of bulk in a plastic bag is 50 pcs. per pack.
- Boxing of bulk in a plastic bag is performed with 200 pcs. per box.

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