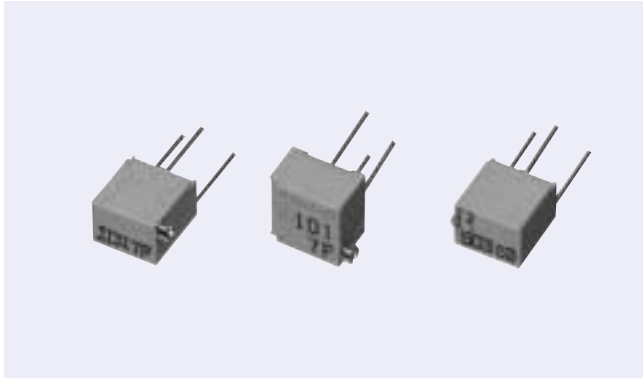


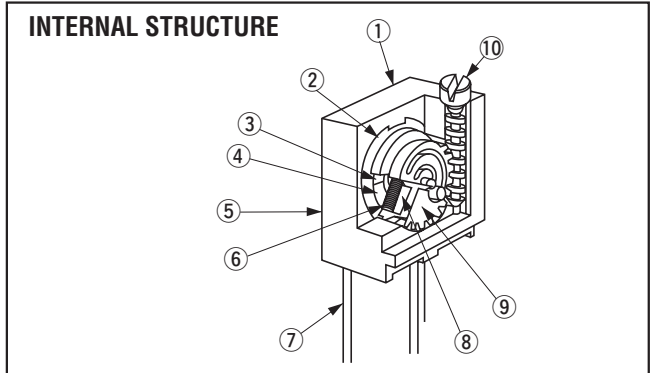
14 TURNS CERMET TRIMMERS

RJ-5



FEATURES

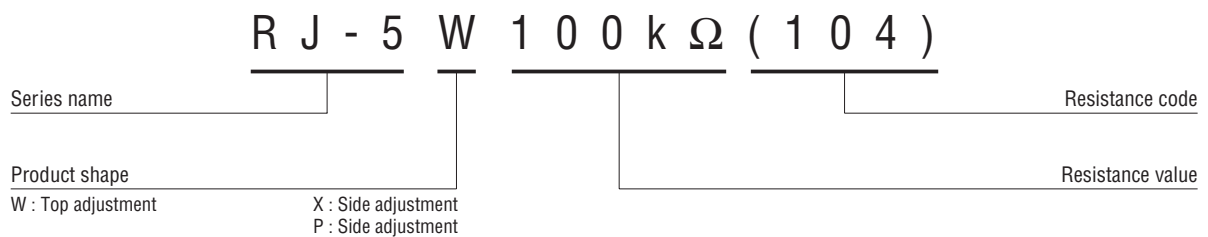
- Fine setting is possible
- Sealed construction (Washable)



Part name	Material	Flammability
① Housing	Polybutyleneterephthalate	UL-94V-0
② Base element	Ceramic	—
③ Electrode	Ag-Pd cermet	
④ Resistive element	RuO ₂ cermet	
⑤ Adhesive	Epoxy	
⑥ Wiper	Multi metal alloy	
⑦ Terminal pin	Copper, Solder-plated	
⑧ Rubber cushion	Silicone rubber	UL-94HB
⑨ Rotor gear	Polyamide	
⑩ Shaft	Brass, Nickel-plated	—





CFCs, Halon, Carbon tetrachloride and designated bromic flame retardant PBBOs and PBBs are not used in our products.

PART NUMBER DESIGNATION



※ Please refer to the LIST OF PART NUMBERS when placing orders.

LIST OF PART NUMBERS

Adjustment position	Shape of terminal (Top view)	Form of packaging	Pieces in package
		Vinyl bag	
Top adjustment 		RJ-5W	50 pcs./pack
Side adjustment (↑ Adjustment direction)		RJ-5X	
		RJ-5P	

ELECTRICAL CHARACTERISTICS

Nominal resistance range	10 Ω ~ 2 MΩ
Nominal resistance tolerance	± 10 %
Power ratings	0.25 W (85 °C) 0 W (120 °C)
Resistance law	Linear law (B)
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 : ± 250 10 ⁻⁶ /°C maximum 100 Ω ~ 2 MΩ : ± 100 10 ⁻⁶ /°C maximum
Insulation resistance	1000 MΩ 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 kΩ	2 kΩ	5 kΩ
10 kΩ	20 kΩ	50 kΩ	100 kΩ	200 kΩ	500 kΩ	1 MΩ	2 MΩ	

Fig. 1

* 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 10 Ω ~ 200 Ω [$\Delta R/R \leq \pm (0.5 \Omega + 3 \%)$] 500 Ω ~ 2 MΩ [$\Delta R/R \leq \pm (0.5 \Omega + 2 \%)$]
Terminal strength	10 N {1.02 kgf} minimum (Tensile strength)
Thrust to shaft	5 N {0.51 kgf} minimum
Solderability	235 °C, 2 s

{ } : Reference only

ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Specifications
Thermal shock	-65 ~ 125 °C (0.5 h), 5 cycles	$[\Delta R/R \leq 1 \%$ [S.S. $\leq 1 \%$]
Humidity	-10 ~ 65 °C (Relative humidity 80 ~ 98 %), 10 cycles, 240 h	$[\Delta R/R \leq 1 \%$]
Shock	981 m/s ² , 6 ms 6 directions for 3 times each	$[\Delta R/R \leq 1 \%$ [S.S. $\leq 1 \%$]
Vibration	Amplitude 1.52 mm or Acceleration 196 m/s ² , 10 ~ 2000 Hz, 3 directions, 12 times each	
Load life	85 °C, 0.25 W, 1000 h	$[\Delta R/R \leq 2 \%$ [S.S. $\leq 1 \%$]
Low temp. operation	-55 °C, 2 h	$[\Delta R/R \leq 2 \%$ [S.S. $\leq 2 \%$]
High temp. exposure	120 °C, 250 h	
Immersion seal	85 °C, 60 s	No leaks (No continuous bubbles)
Soldering heat	350 °C, 3 s	$[\Delta R/R \leq 1 \%$]

$\Delta R/R$: 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	100 200 500 101 201 501	1.00 2.00 3.53 5.00 7.07 11.1	100 100 70.7 50.0 35.3 22.3
1 k 2 k 5 k 10 k 20 k 50 k	102 202 502 103 203 503	15.8 22.3 35.3 50.0 70.7 111	15.8 11.1 7.07 5.00 3.53 2.23
100 k 200 k 500 k 1 M 2 M	104 204 504 105 205	158 200 200 200 200	1.58 1.00 0.40 0.20 0.10

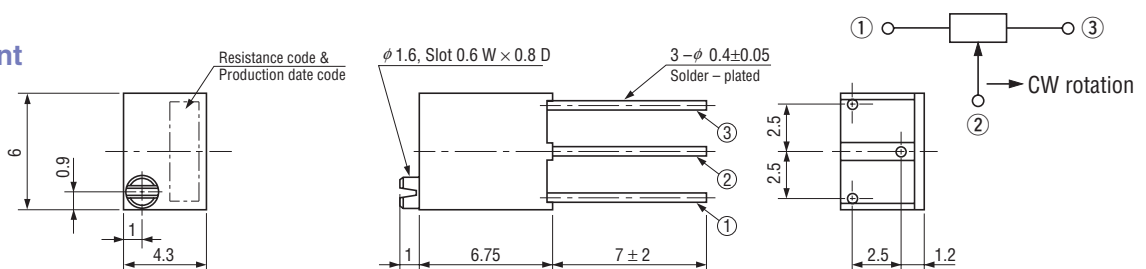
The products indicated by ➡ mark are manufactured upon receipt of order basis.

OUTLINE DIMENSIONS

Unless otherwise specified, tolerance: ± 0.3 (Unit: mm)

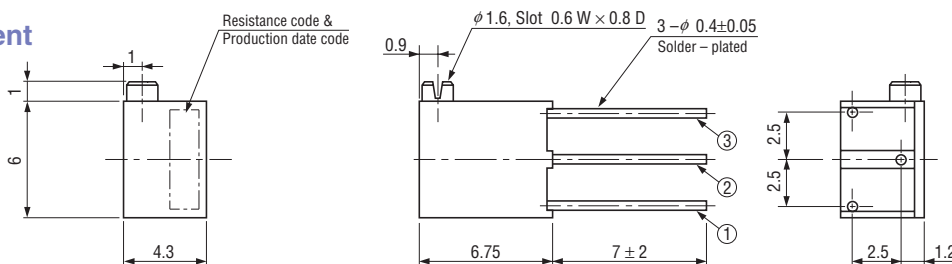
RJ-5W

Top adjustment



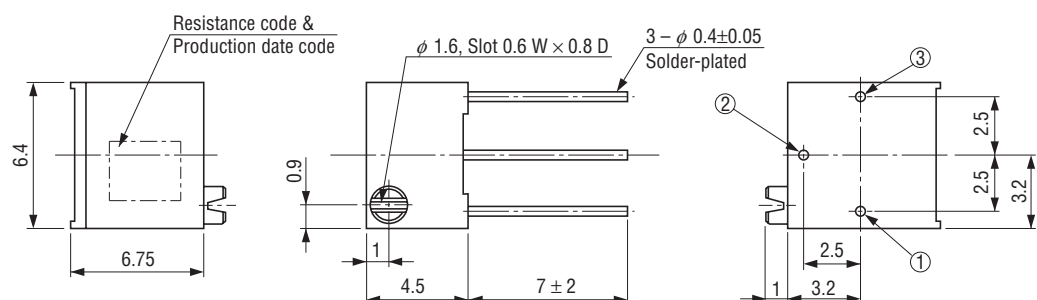
RJ-5X

Side adjustment



RJ-5P

Side adjustment



PACKAGING SPECIFICATIONS

<Vinyl bag packaging specifications>

- Unit of bulk in vinyl bag packaging is 50 pcs. per pack.
- Boxing of bulk in vinyl bags is performed with 200 pcs. per box.

Specifications are subject to change without notice. Specifications in this catalog are for reference. The formal specification sheets will be submitted upon request.