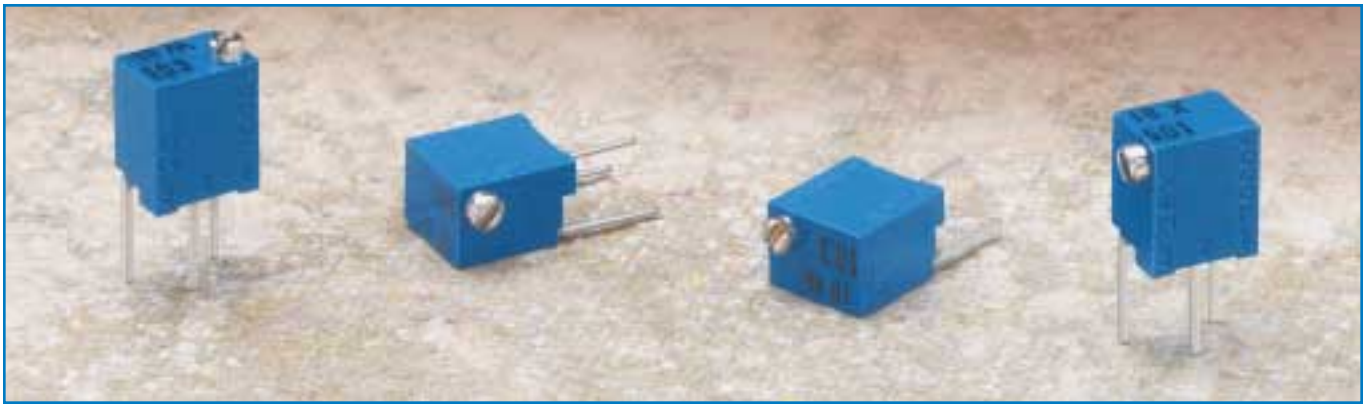
RJC26 Series

TOCOS® POTENTIOMETERS

1/4” Square, Multi-Turn, Through-Hole Sealed Cermet Trimmers



Features

- 1/4” square, multi-turn, through-hole, sealed cermet trimmers
- 11-turn design for more accurate setting
- State-of-the-art brush contact design
- Stop-clutch action at ends of element
- Top and side adjust models
- Meets UL 94V-0 flammability requirements
- Sealed to withstand wave soldering and immersion cleaning

Specifications

Electrical

Standard Resistance Range . . . . . 100Ω to 5MΩ (standard 1, 2 & 5 sequence plus 3MΩ rating)

Resistance Tolerance . . . . ±10% and ±20% (up to 2MΩ) +30%, −20% (3MΩ and 5MΩ)

End Resistance . . . . . 1% or 2Ω, whichever is greater

Resistance Taper . . . . . Linear

Peak Noise (C.R.V.) . . . . . 2% or 3Ω, whichever is greater

Power Rating . . . . . 0.25 watt at +70°C, 0 watt at +125°C

Maximum Input Voltage . . . . . 300VDC or power rating, whichever is smaller

Temperature Coefficient . . . . ±100ppm/°C, 200Ω to 1MΩ ±250ppm/°C, other value

Insulation Resistance . . . . . 1,000MΩ minimum at 500VDC

Dielectric Strength . . . . . 600VAC, 1 minute

Adjustment Travel . . . . . 8.5 turns±1

Mechanical

Mechanical Travel . . . . . 11 turns±1

Shaft Torque . . . . . 200 gf•cm (2.77 oz•in) max.

Stop Strength . . . . . Clutch action

Flammability of Plastic Materials . . . . . Meets UL 94V-0

Nominal Weight 0.3g

Marking . . . . . Resistance code, date code, model type, terminal identification

Environmental

Temperature Range . . . . . −55°C to +125°C

Low Temperature Operation . . . . −55°C, 0.25 watt, 1 hour ΔT/R ≦±2%

High Temperature Exposure . . . . . +125°C, 250 hours ΔT/R ≦±2%, S.S. ≦±1%

Load Life . . . . . +70°C, 0.25 watt, 1,000 hours ΔT/R ≦±2%, S.S. ≦±3%

Thermal Shock . . . . . −55°C, +125°C, 30 minutes each, 5 cycles ΔT/R ≦±1%, S.S. ≦±1%

Shock . . . . . 100G, 6ms, 6 directions, 3 times each ΔT/R ≦±1%, S.S. ≦±1%

Vibration . . . . . 10-2,000Hz, 1.5mm amplitude, 20G, 12 hours ΔT/R ≦±1%, S.S. ≦±1%

Humidity . . . . . +40°C, 90-95%RH, 0.25 watt, 500 hours ΔT/R ≦±3%, S.S. ≦±1%

Moisture Resistance . . . . . −10°C to +65°C, 80-98%RH, 0.25 watt, 10 cycles, 240 hours ΔT/R ≦±3%

Soldering Heat Resistance . . . . . 350°C, 3 seconds ΔT/R ≦±1%

Seal Test . . . . . +85°C, hot water for 1 minute

Rotational Life . . . . . 200 cycles without discontinuity ΔT/R ≦±5%)

ΔT/R = Total Resistance Change; S.S. = Setting Stability (voltage ratio)

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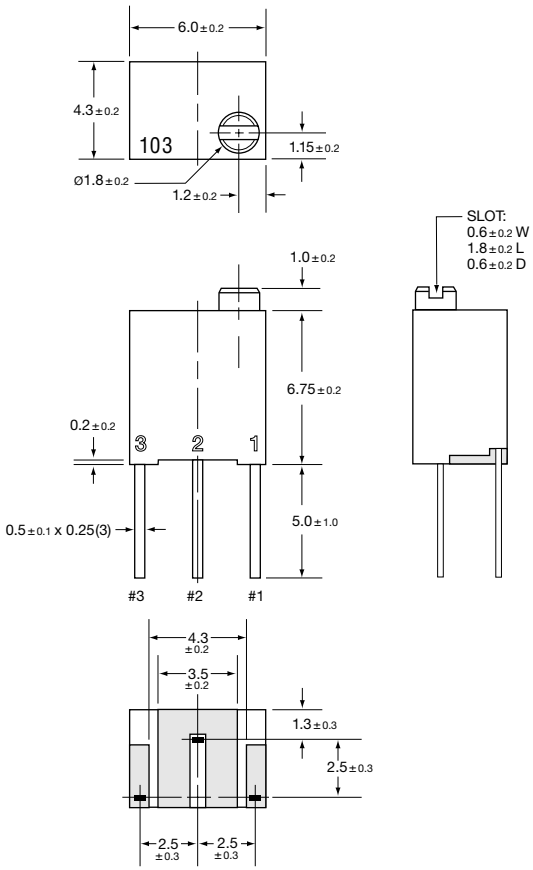
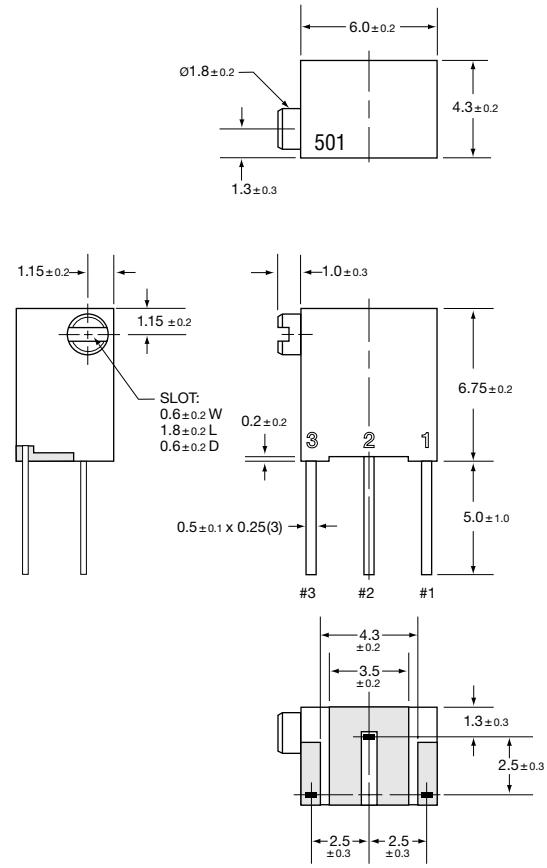
Dimensions

Unit: mm

RJC26W
W Terminal Style, Single-Slot, Top Adjust



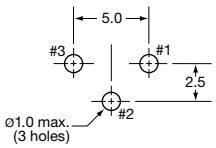
RJC26X
X Terminal Style, Single-Slot, Side Adjust



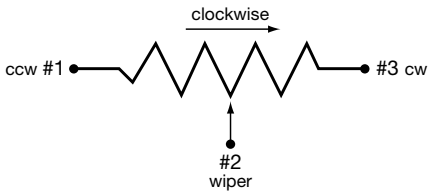
Recommended PCB Layout

Unit: mm

W & X Pin-Out



Electrical Schematic



RJC26 Series — Part Numbering System

RJC26 X B 102 K

- K: Resistance Tolerance: K = ±10%; M = ±20%; Blank = +30%, −20%
- 102: 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 = 10Ω; 101 = 100Ω; 102 = 1,000Ω; 105 = 1,000,000Ω).
- B: Resistance Taper: B = Linear.
- X: Terminal Style: W = 3-Lead Configuration, Top Adjust. X = 3-Lead Configuration, Side Adjust.
- RJC26: TOCOS Series Name.

Part Numbers

Nominal Resistance		Catalog No. Bulk		Potentiometer Styles
Value (Ω)	Code	Resistance Tolerance ±10%	Resistance Tolerance ±20%	

RJC26W Through-Hole, W Terminal Style, Single-Slot, Top Adjust

100	101	RJC26W B 101 K	RJC26W B 101 M	 RJC26W
200	201	RJC26W B 201 K	RJC26W B 201 M	
500	501	RJC26W B 501 K	RJC26W B 501 M	
1,000	102	RJC26W B 102 K	RJC26W B 102 M	
2,000	202	RJC26W B 202 K	RJC26W B 202 M	
5,000	502	RJC26W B 502 K	RJC26W B 502 M	
10,000	103	RJC26W B 103 K	RJC26W B 103 M	
20,000	203	RJC26W B 203 K	RJC26W B 203 M	
50,000	503	RJC26W B 503 K	RJC26W B 503 M	
100,000	104	RJC26W B 104 K	RJC26W B 104 M	
200,000	204	RJC26W B 204 K	RJC26W B 204 M	
500,000	504	RJC26W B 504 K	RJC26W B 504 M	
1,000,000	105	RJC26W B 105 K	RJC26W B 105 M	
2,000,000	205	RJC26W B 205 K	RJC26W B 205 M	
3,000,000	305	RJC26W B 305 (+30%, −20% resistance tolerance)		
5,000,000	505	RJC26W B 505 (+30%, −20% resistance tolerance)		

RJC26X Through-Hole, X Terminal Style, Single-Slot, Side Adjust

100	101	RJC26X B 101 K	RJC26X B 101 M	 RJC26X
200	201	RJC26X B 201 K	RJC26X B 201 M	
500	501	RJC26X B 501 K	RJC26X B 501 M	
1,000	102	RJC26X B 102 K	RJC26X B 102 M	
2,000	202	RJC26X B 202 K	RJC26X B 202 M	
5,000	502	RJC26X B 502 K	RJC26X B 502 M	
10,000	103	RJC26X B 103 K	RJC26X B 103 M	
20,000	203	RJC26X B 203 K	RJC26X B 203 M	
50,000	503	RJC26X B 503 K	RJC26X B 503 M	
100,000	104	RJC26X B 104 K	RJC26X B 104 M	
200,000	204	RJC26X B 204 K	RJC26X B 204 M	
500,000	504	RJC26X B 504 K	RJC26X B 504 M	
1,000,000	105	RJC26X B 105 K	RJC26X B 105 M	
2,000,000	205	RJC26X B 205 K	RJC26X B 205 M	
3,000,000	305	RJC26X B 305 (+30%, −20% resistance tolerance)		
5,000,000	505	RJC26X B 505 (+30%, −20% resistance tolerance)		

Packaging

Standard: **Bulk Packaging**

Quantity
50 pieces per vinyl bag.
500 pieces per box.

Soldering and Cleaning Guidelines

For soldering, cleaning and other information, refer to Guidelines and Precautions for Using Potentiometers.

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