WJ14

Lead-screw Actuated Non-wirewound Preset Potentiometer

Electrical Characteristics

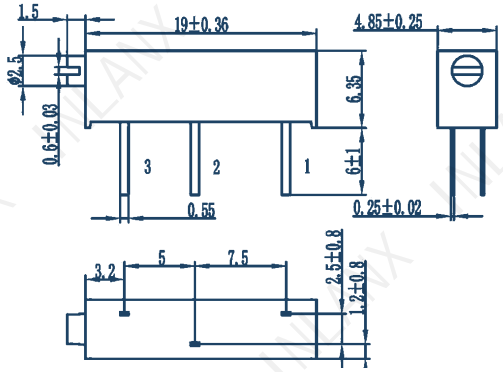
Parameter	Specification
Nominal resistance	10 Ω to 2 MΩ
Resistance tolerance	±10%
Insulation resistance	≥1 GΩ
Dielectric withstand	900 VAC at normal atmospheric pressure
Effective electrical travel	≥18 turns
Terminal resistance	≤2%R or 2 Ω, whichever is greater
Contact resistance variation	CRV≤2%R or 10 Ω, whichever is greater



Physical Characteristics

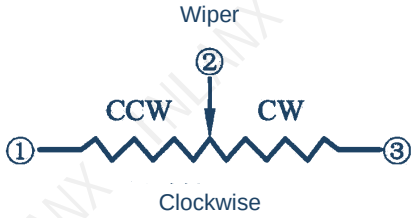
Parameter	Specification
Starting torque	≤50 mN·m
Marking	Trademark, model, nominal resistance, date code, circuit diagram

Outline Dimensions • mm



Note: unspecified tolerances ±0.12.

Circuit Diagram



Resistance / Max. Continuous AC or DC Voltage

Ω	V	Ω	V	Ω	V
10	2.23	1k	22.3	100k	223
20	3.1	2k	31.6	200k	300
50	5	5k	50	500k	300
100	7	10k	70.7	1M	300
200	10	20k	100	2M	300
500	15.8	50k	158		

Environmental Characteristics

Parameter	Specification
Rated power	0.5 W @ 70℃; 0 W @ 125℃
Temperature range	-55℃ to +125℃
Temperature coefficient	≤±150 × 10^-6/K

WJ14

Lead-screw Actuated Non-wirewound Preset Potentiometer

Main Inspection Items

Item	Test Conditions and Requirements
Moisture resistance	GJB 360A-1996, Method 106; ΔR≤±5%R; insulation resistance ≥100 MΩ.
Shock	GJB 360A-1996, Method 213; 1000 m/s² or 100 g, 6 ms, terminal-peak sawtooth; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-frequency vibration	GJB 360A-1996, Method 204; 10 Hz to 2000 Hz, 150 m/s², 0.75 mm; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature life	GJB 360A-1996, Method 108; 70℃, 1000 h; no mechanical damage; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Low-temperature operation	-55℃, 1 h; rated continuous working voltage not exceeding the limiting element voltage for 45 min; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature storage	125℃, 250 h; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Rotational life	(2±0.5) min per revolution, 200 revolutions; no mechanical damage; ΔR≤±5%R.
Immersion	85℃ to 90℃, (60±5) s; no continuous air bubbles from the potentiometer.
Thermal shock	-65℃ to +125℃, ≥15 min, 5 cycles; no electrical discontinuity or mechanical damage; ΔR≤±3%R; Δ(Uab/Uac)≤±2%.

Applicable Standards

Quality grade	Detail specification	Generic specification
Triangle J mark	SJ 20215-1992	GJB 918-1990

Dimensions in mm; unspecified tolerances: ±0.12 mm.

Ordering Information

WJ14 - B - P - 10K - K

Model / Characteristic B / Terminal style P / Nominal resistance / Tolerance K (±10%)

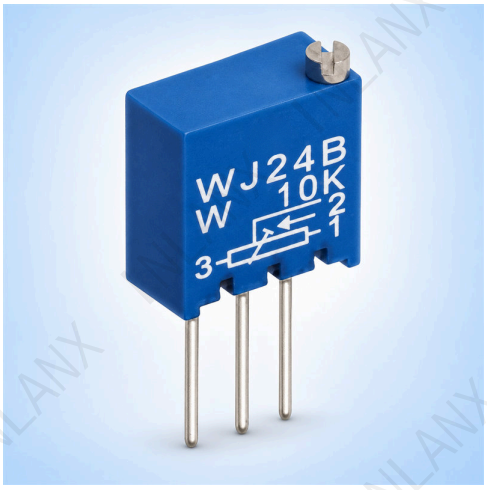
Characteristic B: maximum ambient temperature at rated power and upper category temperature.

WJ24

Lead-screw Actuated Non-wirewound Preset Potentiometer

Electrical Characteristics

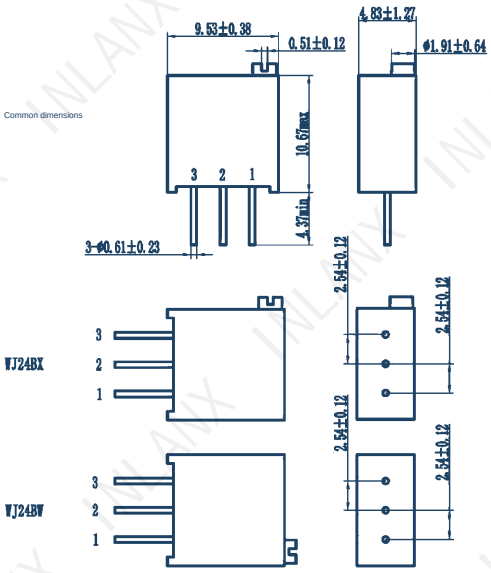
Parameter	Specification
Nominal resistance	10 Ω to 1 MΩ
Resistance tolerance	±10%
Insulation resistance	≥1 GΩ
Dielectric withstand	900 VAC at normal atmospheric pressure
Effective electrical travel	≥15 turns
Terminal resistance	≤2%R or 2 Ω, whichever is greater
Contact resistance variation	CRV≤2%R or 10 Ω, whichever is greater



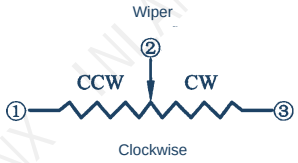
Physical Characteristics

Parameter	Specification
Starting torque	≤35 mN·m
Clutch torque	25 idle turns at the end stop; electrical continuity upon reverse adjustment
Mass	≤1.3 g
Marking	Model, nominal resistance, resistance tolerance

Outline Dimensions • mm



Circuit Diagram



Resistance / Max. Continuous AC or DC Voltage

Ω	V	Ω	V	Ω	V
10	2.23	1k	22.3	100k	223
20	3.1	2k	31.6	200k	300
50	5	5k	50	500k	300
100	7	10k	70.7	1M	300
200	10	20k	100		
500	15.8	50k	158		

Environmental Characteristics

Parameter	Specification
Rated power	0.5 W @ 70℃; 0 W @ 125℃
Temperature range	-55℃ to +125℃
Temperature coefficient	≤±150 × 10^-6/K

WJ24

Lead-screw Actuated Non-wirewound Preset Potentiometer

Main Inspection Items

Item	Test Conditions and Requirements
Moisture resistance	GJB 360A-1996, Method 106; ΔR≤±5%R; insulation resistance ≥100 MΩ.
Shock	GJB 360A-1996, Method 213; 100 g, 6 ms, terminal-peak sawtooth; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-frequency vibration	GJB 360A-1996, Method 204; 10 Hz to 2000 Hz, 150 m/s², 0.75 mm; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature life	GJB 360A-1996, Method 108; 70℃, 1000 h; no mechanical damage; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Low-temperature operation	-55℃, 1 h; rated continuous working voltage not exceeding the limiting element voltage for 45 min; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature storage	125℃, 250 h; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Rotational life	(2±0.5) min per revolution, 200 revolutions; no mechanical damage; ΔR≤±5%R.
Immersion	85℃ to 90℃, (60±5) s; no continuous air bubbles from the potentiometer.
Thermal shock	-65℃ to +125℃, ≥15 min, 5 cycles; no electrical discontinuity or mechanical damage; ΔR≤±3%R; Δ(Uab/Uac)≤±2%.

Applicable Standards

Quality grade	Detail specification	Generic specification
Triangle J mark	SJ 20217-1992	GJB 918-1990

Ordering Information

WJ24 - B - W - 10K - K

Model / Characteristic B / Terminal style W (X: see drawing) / Nominal resistance / Tolerance K (±10%)

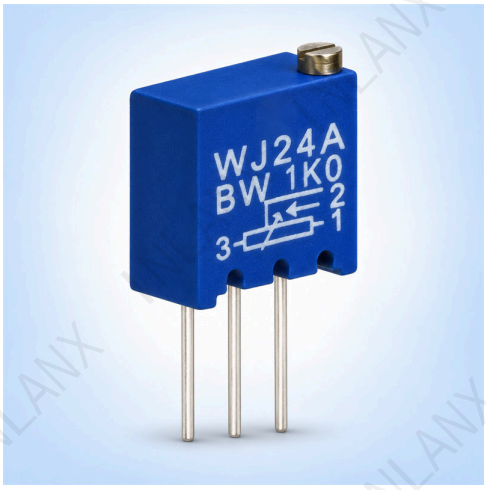
Characteristic B: maximum ambient temperature at rated power and upper category temperature.

WJ24A

Lead-screw Actuated Cermet Trimmer Potentiometer

Electrical Characteristics

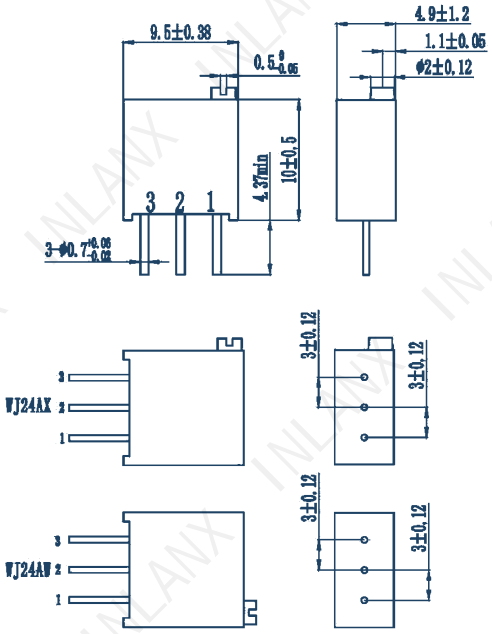
Parameter	Specification
Nominal resistance	10 Ω to 1 MΩ
Resistance tolerance	±10%
Insulation resistance	≥1 GΩ (500 VDC)
Dielectric withstand	900 VAC at normal atmospheric pressure
Terminal resistance	≤±2%R or 2 Ω, whichever is greater
Effective electrical travel	≥15 turns
	≤±2%R or 10 Ω, whichever is greater



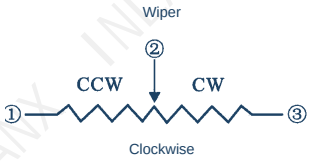
Physical Characteristics

Parameter	Specification
Starting torque	≤35 mN·m
Marking	Trademark, model, nominal resistance, date code, circuit diagram
Mass	≤1.3 g
Clutch torque	25 idle turns at the end stop; electrical continuity upon reverse adjustment

Outline Dimensions • mm



Circuit Diagram



Nominal Resistance / Voltage

Ω	V	Ω	V	Ω	V
10	2.23	1k	22.3	50k	158
20	3.1	2k	31.6	100k	223
50	5	5k	50	200k	300
100	7	10k	70.7	500k	300
200	10	20k	100	1M	300
500	15.8	25k	111		

Environmental Characteristics

Parameter	Specification
Rated power	0.5 W @ 70℃; 0 W @ 125℃
Temperature range	-55℃ to +125℃
Temperature coefficient	≤±150 × 10^-6/K

WJ24A

Lead-screw Actuated Cermet Trimmer Potentiometer

Main Inspection Items

Item	Test Conditions and Requirements
Moisture resistance	GJB 360A-1996, Method 106; ΔR≤±5%R; insulation resistance ≥100 MΩ.
Shock	GJB 360A-1996, Method 213; 100 g, 6 ms, terminal-peak sawtooth; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-frequency vibration	GJB 360A-1996, Method 204; 10 Hz to 2000 Hz, 150 m/s², 0.75 mm; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature life	GJB 360A-1996, Method 108; 70℃, 1000 h; no mechanical damage; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Low-temperature operation	-55℃, 1 h; rated continuous working voltage not exceeding the limiting element voltage for 45 min; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature storage	125℃, 250 h; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Rotational life	(2±0.5) min per revolution, 200 revolutions; no mechanical damage; ΔR≤±5%R.
Immersion	85℃ to 90℃, (60±5) s; no more than 3 bubbles from the potentiometer.
Thermal shock	-65℃ to +125℃, ≥15 min, 5 cycles; no electrical discontinuity or mechanical damage; ΔR≤±3%R; Δ(Uab/Uac)≤±2%.

Applicable Standards

Quality mark	Detail specification	Generic specification
J	Q/RU 03398-2018	GJB 918-1990
Inverted triangle G mark	Q/RU 03398-2018; QZJ 84061	GJB 918-1990

Ordering Information

WJ24A - B - W - 10K - K

Model / Characteristic B / Terminal style W (X: see drawing) / Nominal resistance / Tolerance K (±10%)

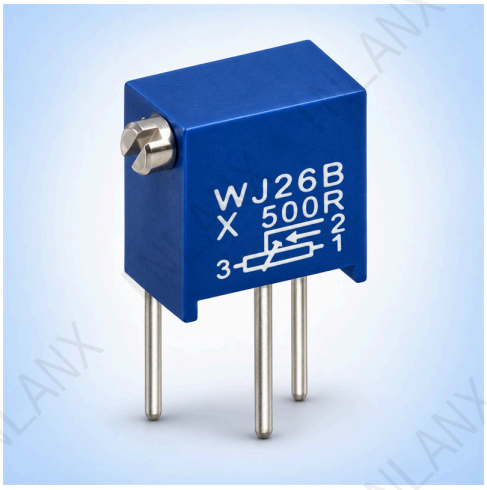
Characteristic B: maximum ambient temperature at rated power and upper category temperature.

WJ26

Lead-screw Actuated Non-wirewound Preset Potentiometer

Electrical Characteristics

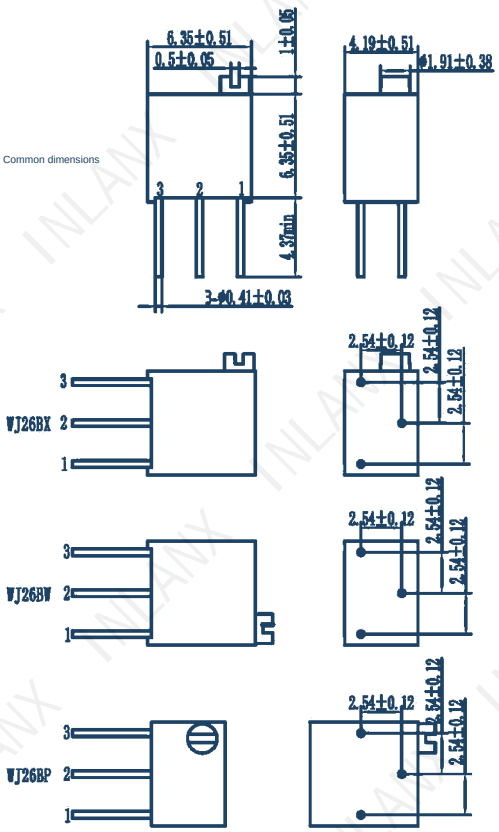
Parameter	Specification
Nominal resistance	10 Ω to 1 MΩ
Resistance tolerance	±10%
Insulation resistance	≥1 GΩ (500 VDC)
Dielectric withstand	600 VAC at normal atmospheric pressure
Effective electrical travel	≥10 turns
Terminal resistance	≤2%R or 2 Ω, whichever is greater
Contact resistance variation	CRV≤2%R or 10 Ω, whichever is greater



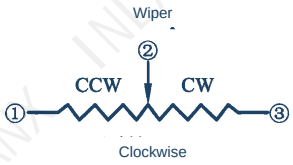
Physical Characteristics

Parameter	Specification
Starting torque	≤21 mN·m
Clutch torque	25 idle turns at the end stop; electrical continuity upon reverse adjustment
Mass	≤0.6 g
Marking	Trademark, model, nominal resistance, date code, circuit diagram

Outline Dimensions • mm



Circuit Diagram



Resistance / Max. Continuous AC or DC Voltage

Ω	V	Ω	V	Ω	V
10	1.58	1k	15.8	100k	158
20	2.23	2k	22.3	200k	200
50	3.54	5k	35.4	500k	200
100	5	10k	50	1M	200
200	7.07	20k	70.7		
500	11.1	50k	111		

Environmental Characteristics

Parameter	Specification
Rated power	0.25 W @ 70℃; 0 W @ 125℃
Temperature range	-55℃ to +125℃
Temperature coefficient	≤±150 × 10^-6/K

WJ26

Lead-screw Actuated Non-wirewound Preset Potentiometer

Main Inspection Items

Item	Test Conditions and Requirements
Moisture resistance	GJB 360A-1996, Method 106; ΔR≤±5%R; insulation resistance ≥100 MΩ.
Shock	GJB 360A-1996, Method 213; 100 g, 6 ms, terminal-peak sawtooth; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-frequency vibration	GJB 360A-1996, Method 204; 10 Hz to 2000 Hz, 150 m/s², 0.75 mm; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature life	GJB 360A-1996, Method 108; 70℃, 1000 h; no mechanical damage; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Low-temperature operation	-55℃, 1 h; rated continuous working voltage not exceeding the limiting element voltage for 45 min; ΔR≤±2%R; Δ(Uab/Uac)≤±2%.
High-temperature storage	125℃, 250 h; ΔR≤±5%R; Δ(Uab/Uac)≤±2%.
Rotational life	(2±0.5) min per revolution, 200 revolutions; no mechanical damage; ΔR≤±5%R.
Immersion	85℃ to 90℃, (60±5) s; no continuous air bubbles from the potentiometer.
Thermal shock	-65℃ to +125℃, ≥15 min, 5 cycles; no electrical discontinuity or mechanical damage; ΔR≤±3%R; Δ(Uab/Uac)≤±2%.

Applicable Standards

Quality grade	Detail specification	Generic specification
Triangle J mark	SJ 20218-1992	GJB 918-1990

Ordering Information

WJ26 - B - W - 10K - K

Model / Characteristic B / Terminal style W (X, P: see drawing) / Nominal resistance / Tolerance K (±10%)

Characteristic B: maximum ambient temperature at rated power and upper category temperature.