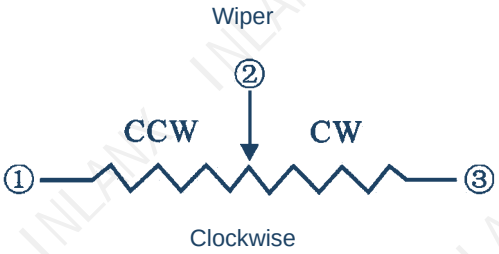
# WIJ2102-JK Cermet Switch Potentiometer

## Electrical Characteristics

| Parameter | Specification |
|---|---|
| Nominal resistance | 100 kΩ |
| Resistance tolerance | ±10% |
| Independent linearity | ≤±3% |
| Output smoothness | ≤0.4% |
| Dielectric withstand | 500 VAC, 60 s at normal atmospheric pressure |
| Insulation resistance | 500 VDC, ≥1 GΩ |
| Effective electrical travel | 245°±5° |
| Mechanical travel | 280°±5° |
| Switch operating angle | 35°±5° |
| Terminal resistance | ≤2%R or 10 Ω, whichever is greater |
| Contact resistance variation | CRV≤3%R |




## Circuit Diagram




## Physical Characteristics

| Parameter | Specification |
|---|---|
| Starting torque | ≤15 mN·m |
| Marking | Model, nominal resistance, product serial number, terminal numbers |
| Mass | ≤35 g |
| Mounting | Bushing mounting; bushing thread M8×0.75 |

## Environmental Characteristics

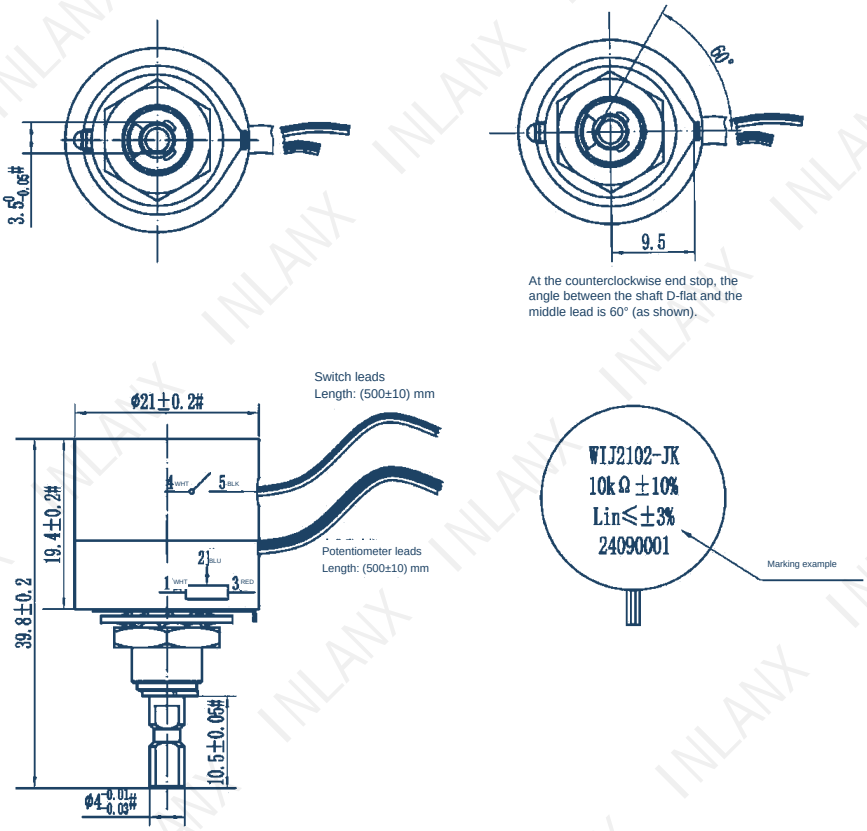
| Parameter | Specification |
|---|---|
| Rated power | 1.0 W @ 70℃ |
| Switch rating | 12 VDC, 1 A |
| Temperature range | -55℃ to +125℃; full-load ambient temperature 70℃; derate above 70℃ |
| Temperature coefficient | ≤±150 ppm/℃ |

## Applicable Standards

| Quality mark | Detail specification | Generic specification |
|---|---|---|
| J | - | GJB 1865A-2015 |

# WIJ2102-JK Cermet Switch Potentiometer

## Outline Dimensions • mm




At counterclockwise end stop, shaft D-flat to middle lead: 60°. Switch leads: 4 white, 5 black; potentiometer leads: 1 white, 2 blue, 3 red. Both cable lengths: (500±10) mm.

## Main Inspection Items

| Item | Test Conditions and Requirements |
|---|---|
| Thermal shock | -55℃ to +125℃, 30 min, 5 cycles; ΔR≤±10%R. |
| High-temperature exposure | GJB 1865A-2015, 4.5.24; 70℃, 1000 h; ΔR≤±2%R. |
| Shock | GJB 1865A-2015, 4.5.25; 100 g, 6 ms; no visible damage or momentary interruption longer than 0.1 ms. |
| Vibration | GJB 1865A-2015, 4.5.26; 10 Hz to 2000 Hz, 150 m/s² or 0.75 mm, 12 h; ΔR≤±2%R. |
| Mechanical endurance | (60±10) revolutions/min, 50000 revolutions; no mechanical damage; ΔR≤±10%R. |
| Salt spray (corrosion) | GJB 360B-2009, Method 101; 96 h; no corrosion. |

## Ordering Information

### WIJ2102 - JK - 100K - K

Model / Terminal style JK (radial switch) / Nominal resistance 100 kΩ / Tolerance K (±10%)