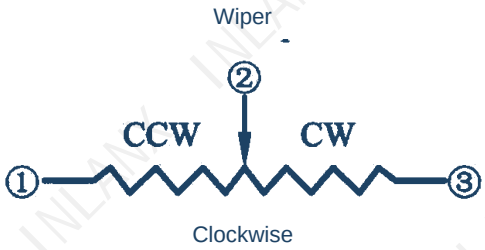
WXJ3601 Single-turn Precision Wirewound Potentiometer

Electrical Characteristics

Parameter	Specification
Nominal resistance	100 Ω to 50 kΩ
Resistance tolerance	±5%
Terminal resistance	≤1%R or 5 Ω, whichever is greater
Peak noise	≤100 Ω
Linearity	±0.25%
Dielectric withstand	900 VAC at normal atmospheric pressure
Limiting voltage	300 V
Insulation resistance	≥1 GΩ
Electrical angle	356°±2°



Circuit Diagram



Physical Characteristics

Parameter	Specification
Starting torque	≤4 mN·m
Running torque	≤3 mN·m
End-stop torque	≤500 mN·m
Mass	≤50 g
Mounting	Threaded-hole mounting, M3, 4 mm
Marking	Trademark, model, nominal resistance, linearity

Nominal Resistance / Resolution

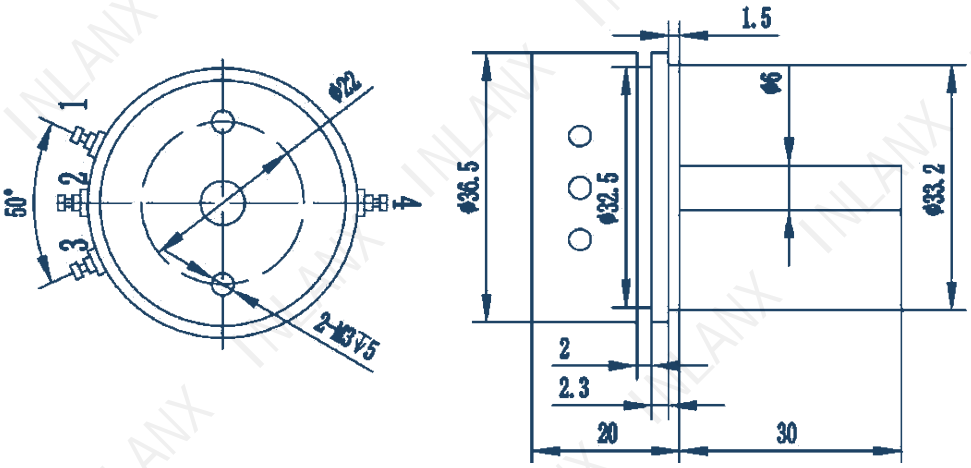
Ω	%	Ω	%
100	0.42	5k	0.17
200	0.40	10k	0.13
500	0.38	20k	0.10
1k	0.30	50k	0.07
2k	0.24		

Environmental Characteristics

Parameter	Specification
Rated power	2 W @ 70℃; 0 W @ 125℃
Temperature range	-55℃ to +125℃
Temperature coefficient of resistance	≤±100 × 10^-6/K; ≤±150 × 10^-6/K below 500 Ω

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Outline Dimensions • mm



Unspecified tolerances: GB/T 1804-m

Main Inspection Items

Item	Test Conditions and Requirements
Shock	GB/T 15298-1994, 4.37; 6 ms, 3 shocks in each of 6 directions; no visible damage; ΔR≤±(0.5%R+0.05 Ω).
Vibration	GB/T 15298-1994, 4.35; ΔR≤±(0.5%R+0.05 Ω); Δ(Uab/Uac)≤±1%.
Thermal shock	-55℃ to +125℃, 5 cycles; ΔR≤±5%R.
Electrical endurance	2 W, 70℃, 1000 h; ΔR≤±(2%R+0.1 Ω).
Mechanical endurance	25000 revolutions; ΔR≤±(5%R+0.1 Ω).
Damp heat, steady state	GB/T 15298-1994, 4.39; ΔR≤±(2%R+0.1 Ω); insulation resistance ≥100 MΩ.

Applicable Standards

Quality mark	Detail specification	Generic specification
QB	—	GB/T 15298-1994

Ordering Information

WXJ3601 - 10K - J

Model / Nominal resistance / Tolerance J (±5%)