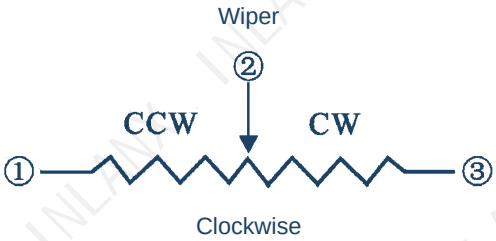
WR2210 Multi-turn Precision Wirewound Potentiometer

Electrical Characteristics

Parameter	Specification
Nominal resistance	100 Ω to 50 kΩ
Resistance tolerance	±5%
Insulation resistance	≥1 GΩ (500 VDC)
Dielectric withstand	750 VAC at normal atmospheric pressure
Terminal resistance	≤±1%R or 5 Ω, whichever is greater
Linearity	±0.25%
Limiting voltage	300 V
Electrical travel	3600°+4°
Mechanical travel	3600°+10°



Circuit Diagram



Physical Characteristics

Parameter	Specification
Starting torque	≤10 mN·m
Running torque	≤9 mN·m
Marking	Trademark, model, nominal resistance, circuit diagram, date code
End-stop torque	≤500 mN·m
Mass	≤25 g
Mounting	Bushing mounting, thread M10×0.75; not suitable for servo or cable drive

Nominal Resistance / Resolution

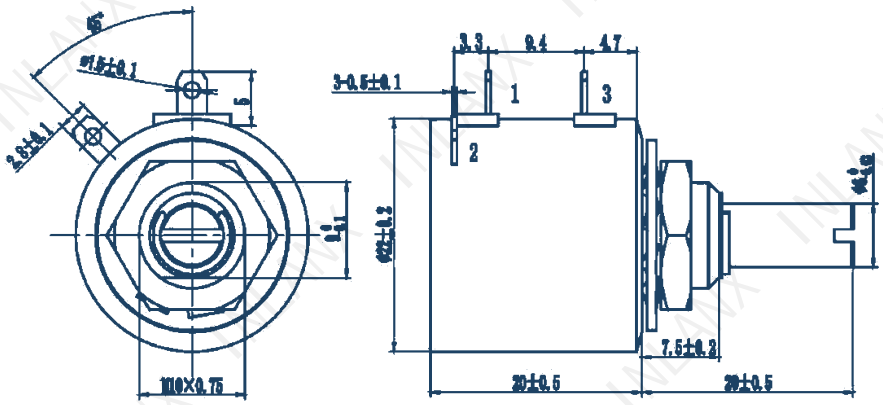
Ω	%	Ω	%
100	0.04	5k	0.2
200	0.04	10k	0.018
500	0.04	20k	0.012
1k	0.035	50k	0.01
2k	0.03		

Environmental Characteristics

Parameter	Specification
Rated power	2 W @ 70℃; 0 W @ 125℃
Temperature range	-65℃ to +125℃
Temperature coefficient	±50 × 10^-6/K; ±150 × 10^-6/K for resistance below 500 Ω

WR2210 Multi-turn Precision Wirewound Potentiometer

Outline Dimensions • mm



Unspecified tolerances: ±0.5.

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Main Inspection Items

Item	Test Conditions and Requirements
Moisture resistance	GJB 360A-1996, Method 106; 240 h; ΔR≤±3%R; insulation resistance ≥10 MΩ.
Shock	GJB 360A-1996, Method 213; no electrical or mechanical damage, or momentary interruption.
High-frequency vibration	GJB 360A-1996, Method 204, Condition B; ΔR≤±5%R; no electrical or mechanical damage, or momentary interruption.
Low-temperature operation	Hold at -65℃ to 70℃ for (4±0.25) h; stabilize for (1±0.25) h, then apply rated voltage for 45 min; no electrical or mechanical damage; ΔR≤±5%R.
Rotational life	(70±2)℃, 25000 revolutions; no mechanical damage or winding discontinuity; ΔR≤±5%R.
Thermal shock	GJB 1523-1992, 4.6.18; no mechanical damage; ΔR≤±5%R.
Salt spray	5% sodium chloride, 35℃, 96 h; no visible corrosion.

Applicable Standards

Quality mark	Detail specification	Generic specification
Triangle J mark	Q/RU 21523.1-2000	GJB 1523-1992

Ordering Information

WR2210 - 10K - J

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