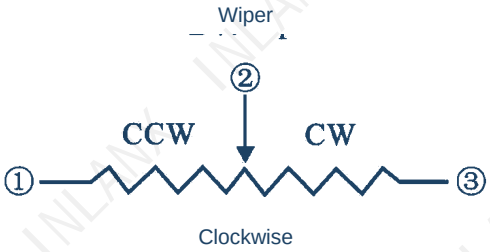
POD20 Single-turn Precision Wirewound Potentiometer

Electrical Characteristics

Parameter	Specification
Nominal resistance	100 Ω to 20 kΩ
Resistance tolerance	±5%
Terminal resistance	≤0.5%R or 2 Ω, whichever is greater
Rotational noise	≤100 Ω
Linearity	±0.4%
Dielectric withstand	450 VAC at normal atmospheric pressure
Limiting voltage	300 V
Effective electrical travel	318°±10°
Total mechanical travel	320°±10°



Circuit Diagram



Physical Characteristics

Parameter	Specification
Starting torque	3 to 15 mN·m
Marking	Trademark, model, nominal resistance, date code
End-stop torque	≤300 mN·m
Mass	≤15 g
Mounting	Bushing mounting

Nominal Resistance / Resolution

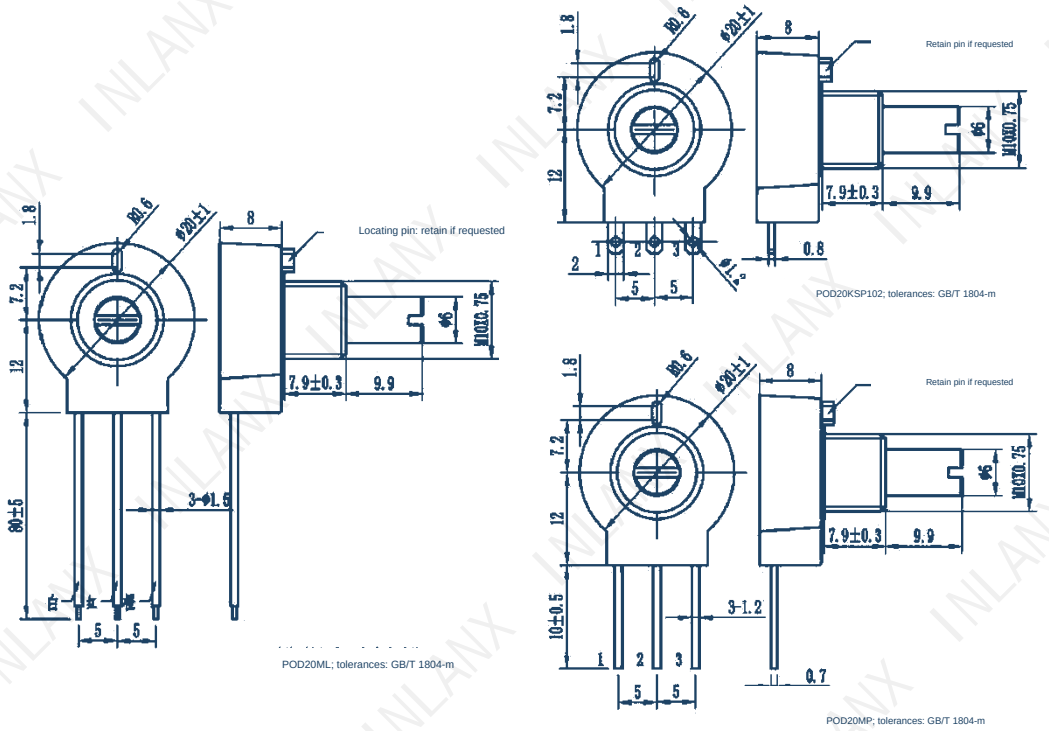
Ω	%	Ω	%
100	0.44	5k	0.19
200	0.45	10k	0.15
500	0.4	20k	0.10
1k	0.32		
2k	0.25		

Environmental Characteristics

Parameter	Specification
Rated power	1.5 W @ 70℃; 0 W @ 125℃
Temperature range	-55℃ to +125℃
Temperature coefficient of resistance	≤±100 × 10^-6/K

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Outline Dimensions • mm



Retain the locating pin only when requested. Unspecified tolerances follow 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	10 Hz to 1000 Hz; 10 g or 0.75 mm amplitude, 6 h; ΔR≤±(0.5%R+0.05 Ω); Δ(Uab/Uac)≤±1%.
Climatic sequence	GB/T 15298-1994, 4.38; no visible damage; insulation resistance ≥100 MΩ; ΔR≤±(2%R+0.1 Ω).
Electrical endurance	1.5 W, 70℃, 1000 h; ΔR≤±(2%R+0.1 Ω).
Mechanical endurance	5000 revolutions; ΔR≤±(2%R+0.5 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
Inverted triangle G mark	Q/RU 804-2001; QZJ 84061	GB/T 15298-1994
J	Q/RU 804-2001	GB/T 15298-1994

Ordering Information

POD20KSP102 - 10K - J

Model POD20 / Terminal style KSP102 / Nominal resistance / Tolerance J (±5%)

MP: long straight leads; ML: cable; KSP102: terminals with holes.