WI111 (3323) Cermet Trimmer Potentiometer

Electrical Characteristics

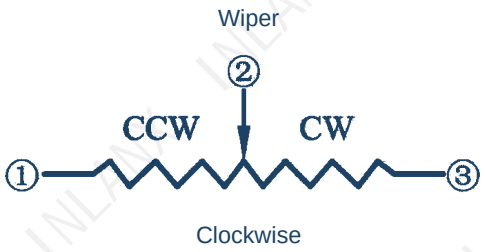
Parameter	Specification
Nominal resistance	100 Ω to 1 MΩ
Resistance tolerance	±10%, ±20%
Insulation resistance	≥1 GΩ (500 V)
Dielectric withstand	900 VAC at normal atmospheric pressure
Effective electrical travel	(21±1) turns
Terminal resistance	≤1%R or 100 Ω, whichever is greater
Contact resistance variation	CRV≤3%R or 5 Ω, whichever is greater



Physical Characteristics

Parameter	Specification
Starting torque	1 to 30 mN·m
Marking	Trademark, model, nominal resistance, date code
Mass	≤1.3 g
Clutch torque	25 idle turns at the end stop; electrical continuity upon reverse adjustment

Circuit Diagram



Nominal Resistance • Ω

Ω	Ω	Ω
100	5k	200k
200	10k	500k
500	20k	1M
1k	50k	
2k	100k	

Environmental Characteristics

Parameter	Specification
Rated power	0.5 W @ 70℃; 0 W @ 100℃
Temperature range	-55℃ to +100℃
Temperature coefficient	≤±250 × 10^-6/K

Applicable Standards

Quality mark	Detail specification	Generic specification
Inverted triangle G mark	Q/RU 116-1995; QZJ 84061	GB/T 15298-1994
J	Q/RU 116-1995	GB/T 15298-1994

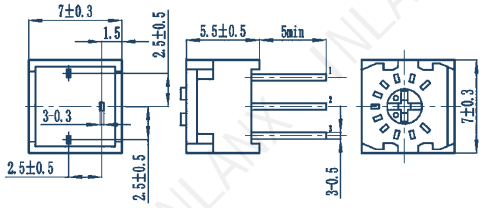
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Main Inspection Items

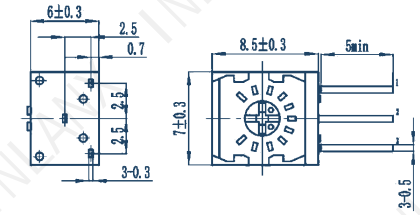
Item	Test Conditions and Requirements
	390 m/s², 4000 cycles; ΔR≤±(5%R+0.1 Ω).
Soldering heat	IEC 68-2-20, Test Tb, Method 1A; (5±1) s; ΔR≤±(5%R+0.1 Ω).
Temperature change	-55℃ / 100℃; ΔR≤±(5%R+0.1 Ω); Δ(Uab/Uac)≤±5%.
Vibration	GB/T 15298-1994, 4.35, Procedure B4; 10 Hz to 500 Hz, 0.75 mm amplitude or 10 g, 6 h; no visible damage or continuous electrical discontinuity; ΔR≤±(5%R+0.1 Ω); Δ(Uab/Uac)≤±7.5%.
Climatic sequence	GB/T 15298-1994, 4.38; no visible damage or continuous electrical discontinuity; ΔR≤±(10%R+0.5 Ω); insulation resistance ≥100 MΩ.
Damp heat, steady state	GB/T 15298-1994, 4.39; no visible damage, flashover or breakdown; ΔR≤±(10%R+0.5 Ω); insulation resistance ≥100 MΩ; rotational noise ≤5 Ω or 3%.
Mechanical endurance	GB/T 15298-1994, 4.40; 200 revolutions at 5 to 10 revolutions/min; no mechanical damage; CRV≤3%R or 5 Ω; ΔR≤±(10%R+0.5 Ω).
Electrical endurance	GB/T 15298-1994, 4.43; ΔR≤±(15%R+0.5 Ω).

Outline Dimensions • mm

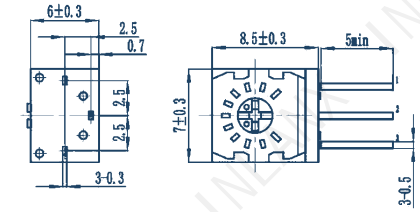
WI111-1
3323P



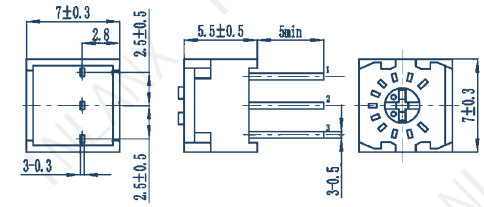
WI111-2
3323W



WI111-3
3323S



WI111-4
3323U



Ordering Information

WI111 - 1 - 10K - K

Model / Terminal style (see drawing) / Nominal resistance / Tolerance K (±10%)