

1/4" Square, Single-Turn, Through-Hole Sealed Cermet Trimmers



Features

- 1/4" square, single-turn, through-hole, sealed cermet trimmers
- Top and side adjust styles available
- 14 pin configurations including the popular 3/8" pin styles
- Precious metal multi-contact wiper design
- Zero backlash
- Cross-slot design for automatic machine adjustment
- Meets UL 94V-0 flammability requirements
- Sealed to withstand wave soldering and immersion cleaning
- Taping available, reel or ammo packaging

Specifications

Electrical

Standard Resistance Range	10Ω to 5MΩ (standard 1, 2 & 5 sequence)
Resistance Tolerance	±10% and ±20%
End Resistance	1% or 1Ω, whichever is greater
Resistance Taper	Linear
Peak Noise (C.R.V.)	1% or 1Ω, whichever is greater
Power Rating	0.5 watt at +70°C, 0 watt at +125°C
Maximum Input Voltage	250VDC or power rating, whichever is smaller
Temperature Coefficient	±100ppm/°C
Insulation Resistance	1,000MΩ minimum at 500VDC
Dielectric Strength	900VAC, 1 minute
Adjustment Travel	210°±10°

Mechanical

Mechanical Travel	250°±10°
Shaft Torque	200 gf•cm (2.77 oz•in) max.
Stop Strength	500 gf•cm (6.93 oz•in) min.
Flammability of Plastic Materials	Meets UL 94V-0
Nominal Weight	0.4g (P, P1, W, U) 0.68g (P2, S, S1, X, X1, U1, Y, Y1, V, V1)
Marking	Resistance code, date code, model type

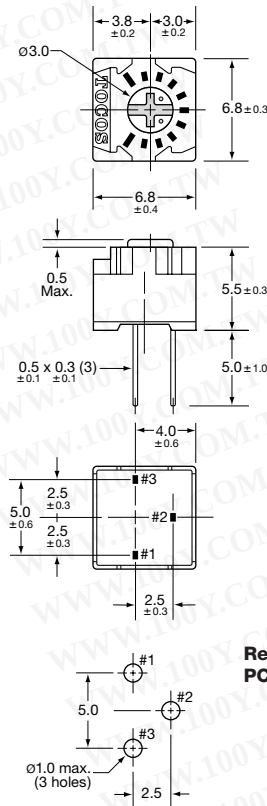
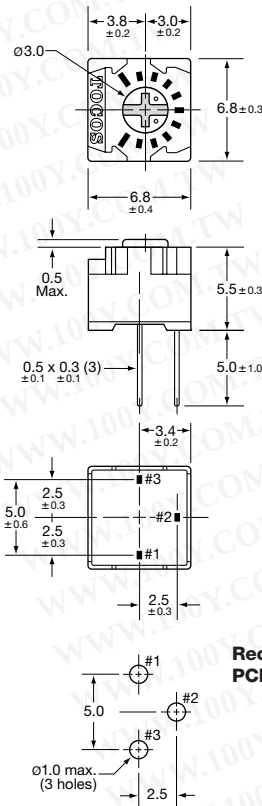
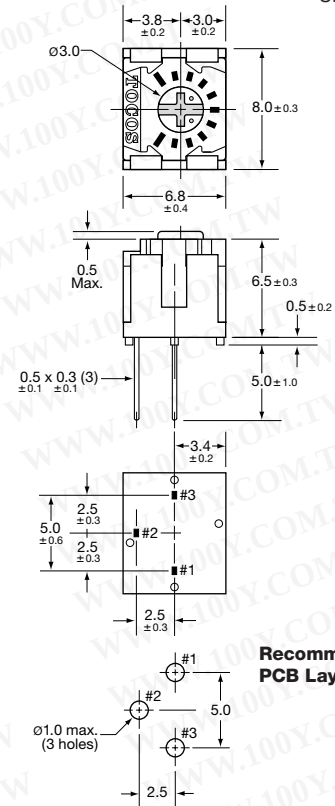
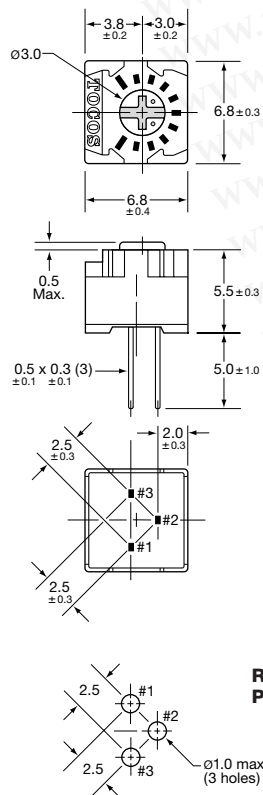
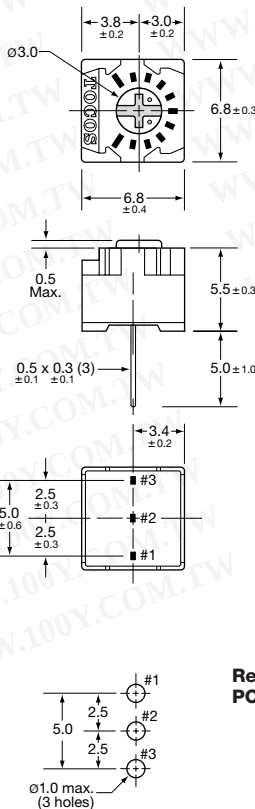
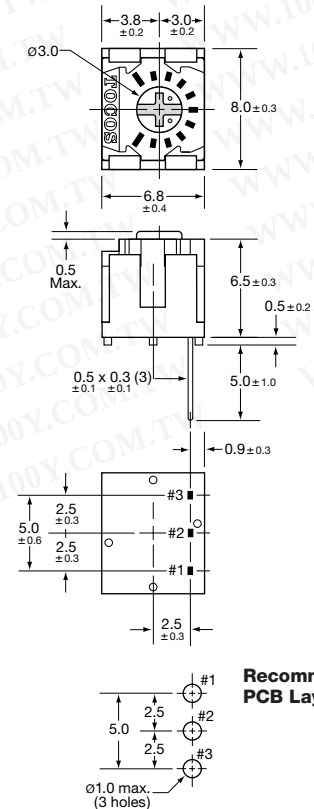
Environmental

Temperature Range	-55°C to +125°C
Low Temperature Operation	-55°C, 0.5 watt, 2 hours ΔT/R ≤ ±2%, S.S. ≤ ±2%
High Temperature Exposure	+125°C, 250 hours ΔT/R ≤ ±2%, S.S. ≤ ±2%
Load Life	+70°C, 0.5 watt, 1,000 hours ΔT/R ≤ ±3%, S.S. ≤ ±2%
Thermal Shock	-55°C, +125°C, 30 minutes each, 5 cycles ΔT/R ≤ ±1%, S.S. ≤ ±1%
Shock	100G, 6ms, 6 directions, 3 times each ΔT/R ≤ ±1%, S.S. ≤ ±1%
Vibration	10-2,000Hz, 1.5mm amplitude, 20G, 12 hours ΔT/R ≤ ±1%, S.S. ≤ ±1%
Humidity	+40°C, 90-95% RH, 0.5 watt, 500 hours ΔT/R ≤ ±3%, S.S. ≤ ±2%
Moisture Resistance	-10°C to +65°C, 80-98% RH, 0.5 watt, 10 cycles, 240 hours ΔT/R ≤ ±2%
Soldering Heat Resistance	350°C, 3 seconds ΔT/R ≤ ±1%
Seal Test	+85°C, hot water for 1 minute
Rotational Life	100 cycles without discontinuity ΔT/R ≤ ±(2Ω+3%)

ΔT/R = Total Resistance Change; S.S. = Setting Stability (voltage ratio)

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Unit: mm

**GF06P Cross-Slot, Top Adjust,
P Terminal Style****Recommended
PCB Layout****GF06P1 Cross-Slot, Top Adjust,
P1 Terminal Style****Recommended
PCB Layout****GF06P2 Cross-Slot, Top Adjust,
P2 Terminal Style****Recommended
PCB Layout****GF06W Cross-Slot, Top Adjust,
W Terminal Style****Recommended
PCB Layout****GF06U Cross-Slot, Top Adjust,
U Terminal Style****Recommended
PCB Layout****GF06U1 Cross-Slot, Top Adjust,
U1 Terminal Style****Recommended
PCB Layout**