



# TRIMMER POTENTIOMETER



## 11-Turns Cermet Trimmer Potentiometer POG5 Series

### Surface mount with 5mm package achieve high resolution, 11-turns recommended for reflow soldering method

#### FEATURES

1. High resolution resulting from 11-turns design enables precise adjustment.
2. 5mm miniature size lead a high density PCB mounting.
3. Compatible with VPS reflow soldering method.
4. Compatible with ultrasonic cleaning.  
(See pages 43 to 44 for details.)
5. Clutch mechanism prevents excessive wiper rotation.

#### APPLICATIONS

Measuring instruments, Sensors, CPUs, Industrial machines

#### PART NUMBERING

(Please specify the part number when ordering.)

(Ex.) POG5 AN - 1 - 103 K - T00

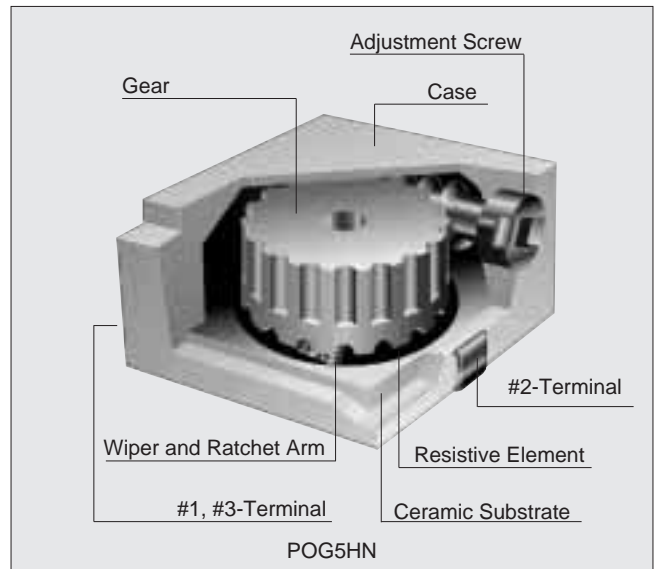
- ① Model
- ② Figure number  
AN : Top adjustment  
HN : Side adjustment
- ③ Options 1 : Standard
- ④ Resistance code
- ⑤ Total resistance tolerance K : ±10%
- ⑥ Packaging code  
Taping : T00

250pcs./reel (180mm dia.)...POG5AN type  
500pcs./reel (180mm dia.)...POG5HN type

Bulk : No codes...50pcs./bag

#### RATINGS

Standard Total Resistance Range	10Ω to 2MΩ
Total Resistance Tolerance	±10% of standard total resistance value
Power Rating	70°C — 0.25W 125°C — 0W
Max. Working Voltage	300Vdc
Max. Wiper Current	100mA max.
Operating Temperature Range	-55°C to +125°C
Effective Electrical Number of Turn	11±2 turns
Residual Resistance	1% or 2Ω max. Whichever is greater
Contact Resistance Variation	3% or 3Ω max. Whichever is greater
Dielectric Strength	600Vac
Insulation Resistance	100MΩ min. (500Vdc)
Torque	17.6mNm (180gf·cm) max.



#### ENVIRONMENTAL CHARACTERISTICS

Temperature Coefficient of Resistance	R ≤ 100Ω ... ±200ppm/°C R ≥ 200Ω ... ±100ppm/°C
Temperature Cycle	ΔTR ±2% ΔV.S. S. ±1%
Humidity Exposure	ΔTR ±2% IR 10MΩ min.
Vibration	ΔTR ±1% ΔV.S. S. ±1%
Shock	ΔTR ±1% ΔV.S. S. ±1%
Load Life	ΔTR ±3% or 3Ωmax., whichever is greater ΔV.S. S. ±1%
Low Temperature Exposure	ΔTR ±1% ΔV.S. S. ±1%
High Temperature Exposure	ΔTR ±2% ΔV.S. S. ±1%
Rotational Life (100 cycles)	No intermittence on resistance change

ΔTR : Total Resistance Change  
ΔV.S.S. : Voltage Setting Stability  
IR : Insulation Resistance



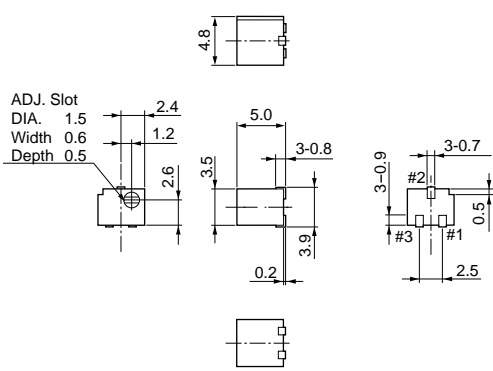
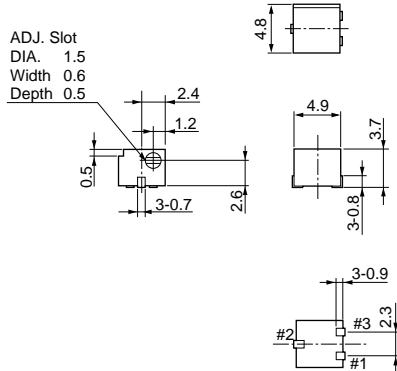
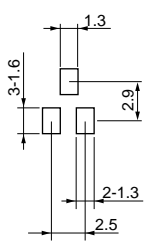
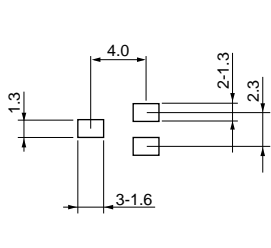
#### MINIMUM QUANTITY (order in sets only)

250 pcs./reel...POG5AN type  
500 pcs./reel...POG5HN type  
50 pcs./bag

#### OTHERS

- See pages 43 to 44 for Notice
- See pages 46 to 47 for test methods

■PART NUMBER TABLE

Standard Total Resistance Values	Model Number	
	Top Adjustment (POG5AN)	Side Adjustment (POG5HN)
		
10Ω	POG5AN-1-100K	POG5HN-1-100K
20Ω	POG5AN-1-200K	POG5HN-1-200K
50Ω	POG5AN-1-500K	POG5HN-1-500K
100Ω	POG5AN-1-101K	POG5HN-1-101K
200Ω	POG5AN-1-201K	POG5HN-1-201K
500Ω	POG5AN-1-501K	POG5HN-1-501K
1kΩ	POG5AN-1-102K	POG5HN-1-102K
2kΩ	POG5AN-1-202K	POG5HN-1-202K
5kΩ	POG5AN-1-502K	POG5HN-1-502K
10kΩ	POG5AN-1-103K	POG5HN-1-103K
20kΩ	POG5AN-1-203K	POG5HN-1-203K
50kΩ	POG5AN-1-503K	POG5HN-1-503K
100kΩ	POG5AN-1-104K	POG5HN-1-104K
200kΩ	POG5AN-1-204K	POG5HN-1-204K
500kΩ	POG5AN-1-504K	POG5HN-1-504K
1MΩ	POG5AN-1-105K	POG5HN-1-105K
2MΩ	POG5AN-1-205K	POG5HN-1-205K
Outline dimensions	 <p>ADJ. Slot DIA. 1.5 Width 0.6 Depth 0.5</p> <p>Schematic #2 #1 --- #3 Clockwise →</p> <p>[ in mm Standard tolerance : ±0.3 ]</p>	 <p>ADJ. Slot DIA. 1.5 Width 0.6 Depth 0.5</p> <p>[ in mm Standard tolerance : ±0.3 ]</p>
Standard PCB layout	 <p>[ in mm Standard tolerance : ±0.1 ]</p>	 <p>[ in mm Standard tolerance : ±0.1 ]</p>