Wirewound

MODEL 22HP

Model 22HP-10

Standard Model Nos.

5-turn models:

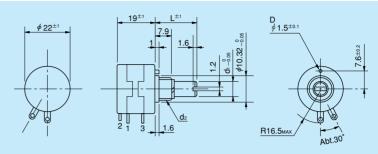
22HP-5 22HP-5M 22HP-5E 22HP-5N

10-turn models:

22HP-10 22HP-10M 22HP-10E 22HP-10N

Note: Please select the exact model number from the right-side table, because each model number has different shaft dia. and bushing dimensions.

Standard Dimensions



Model No.	Sh Dimer		Mounting Screw	Anti-rotation	
	d1	L	d2	D	
22HP-10	φ6	20.6	3/8-32UNEF	Yes	
22HP-10M	φ6	25.0	M9 P=0.75	No	
22HP-10E	φ 6.35	20.6	3/8-32UNEF	Yes	
22HP-10N	φ6	20.6	M9 P=0.75	No	

Note: 1. 1 pc. each inner teeth washer and hex nut are attached.

- 2. Outer dimensions of 5-turn version are same as those of 10-turn.
- 3. Housing length of 2 ganged version is extended by 19mm.
- 4. Please process the mounting hole on the panel to be mounted with this potentiometer by the diameter of $10.32 \text{mm}_0^{+0.05}$.

General Specifications

Standard Resistance

100 Ω to 50k Ω (5-turn) Range:

100 Ω to 100k Ω (10-turn)

Total Resistance

Standard Class ±5% (J) **Tolerance:** Precision Class ±1% (F)

Independent Linearity

Tolerance: 5-turn 10-turn

Standard Class ±0.3% ±0.25% Precision Class ±0.2% ±0.1% (Within $5k\Omega$) ($\pm 0.25\%$)($\pm 0.15\%$)

1.0W (5-turn) **Power Rating:**

2.0W (10-turn)

Noise: Within 100Ω E.N.R.

 $360^{\circ} \times n \pm 5^{\circ}$ (n: No. of turns) **Electrical Travel:**

 $360^{\circ} \times n + \frac{10^{\circ}}{0^{\circ}}$ (n: No. of turns) Mechanical Travel:

InsulationResistance: Over 1,000M Ω at 500V.D.C. 1 minute at 1,000V.A.C. **Dielectric Strength:**

Within 10mN·m (100gf·cm) **Starting Torque:** Approx. 0.35N·m (3.5kgf·cm) **Stopper Strength:**

Max. Working Voltage: 250V

Resist. Temperature

Coefficient of Wire: ±20p.p.m./°C

Materials: Shaft: Stainless steel Housing case: Glass-filled nylon

Bushing: Glass-filled nylon

> (For ganged version, the bushing is metalbrass without plating.)

Terminals: Gold-plated brass

> (All terminals can be fitted with the AMP 110 series faston receptacle (2.8× 0.5mm) or equivalents.)

Max. Torque exerted on fastening the mounting nut to the bushing:

Within 1.0N · m (10kgf · cm) (In case of panel thickness with

over 2.5mm., the rotating torque

may become heavier.)

Approx. 20g (Both 5-turn and 10-turn)

Standard Resistance Values ■No. of Wire Turns ■Resistance Wire Used

Resist. Value (Ω)	100	200	500	1k	2k	5k	10k	20k	50k	100k
22HP-5	1,240	1,560	2,000	2,510	2,400	3,200	3,900	4,800	5,500	_
22HP-10	2,100	2,480	3,300	4,000	5,020	5,000	6,400	7,800	10,100	11,000
Resist. Wire Used	Cu-Ni System				Ni-Cr System					

Mass:

Special Specifications Available

Rear shaft (6mm dia. and 15mm length), Multi-ganged (Available up to 10 gangs), High torque, Special shaft dia. (ϕ 3mm, ϕ 3.175mm, ϕ 4mm, ϕ 5mm), Special machining on the shaft, Plastic shaft, Metal bushing (22HPM-n with antirotation pin), 1, 2, 3, 4, 6, 7 and 8-turn versions are available (These versions have same outer dimensions, but general specifications are different each other, so please ask us for details), Simple sealed housing, Slipping-clutch incorporated type (20mN·m~60mN·m), Extra taps (Available up to 1 tap only for 10-turn model), Servomount type (Same dimensions as 22HHPS-10).