



● 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.	Shaft Dimensions		Mounting Screw	Anti-rotation
	d1	L	d2	D
22HP-10	φ 6	20.6	3/8-32UNEF	Yes
22HP-10M	φ 6	25.0	M9 P=0.75	No
22HP-10E	φ 6.35	20.6	3/8-32UNEF	Yes
22HP-10N	φ 6	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 10.32mm<sup>+0.05</sup><sub>0</sub>.

● General Specifications

Standard Resistance

Range: 100Ω to 50kΩ (5-turn)  
 100Ω to 100kΩ (10-turn)

Total Resistance

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

Independent Linearity

Tolerance: 5-turn 10-turn  
 Standard Class ±0.3% ±0.25%  
 Precision Class ±0.2% ±0.1%  
 (Within 5kΩ) (±0.25%)(±0.15%)

Power Rating:

1.0W (5-turn)  
 2.0W (10-turn)

Noise:

Within 100Ω E.N.R.

Electrical Travel:

360° × n ± 5° (n: No. of turns)

Mechanical Travel:

360° × n +10°<sub>0</sub> (n: No. of turns)

Insulation Resistance:

Over 1,000MΩ at 500V.D.C.

Dielectric Strength:

1 minute at 1,000V.A.C.

Starting Torque:

Within 10mN·m (100gf·cm)

Stopper Strength:

Approx. 0.35N·m (3.5kgf·cm)

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.)

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 metal-brass without plating.)  
 Terminals: Gold-plated brass  
 (All terminals can be fitted with the AMP 110 series faston receptacle (2.8× 0.5mm) or equivalents.)

Mass:

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				

● Special Specifications Available

Shaft with front and rear extension (Rear shaft with 6mm dia. and 15mm length), Multi-ganged (Available up to 10 gangs), With high torque, Special shaft dia. (φ 3mm, φ 3.175mm, φ 4mm, φ 5mm), Special machining on the shaft, With plastic shaft, Metal bushing type (22HPM-n with anti-rotation pin), 1, 2, 3, 4, 6, 7 and 8-turn versions are available (These versions have same outer dimensions, but general specifications are please request 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 22HHP-10).