



● Standard Model Nos.

5-turn models:

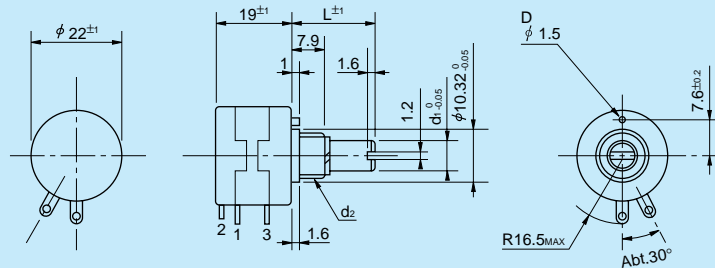
22HP-5 22HP-5M
22HP-5E 22HP-5N

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		
22HP-10	∅6	20.6	3/8-32UNEF	Yes
22HP-10M	∅6	25.0	M9 P=0.75	No
22HP-10E	∅6.35	20.6	3/8-32UNEF	Yes
22HP-10N	∅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 10.32mm₀^{+0.05}.

● 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%
(Below 5kΩ) (±0.25%) (±0.15%)

Power Rating:

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

Noise:

Below 100Ω E.N.R.

Electrical Travel:

360°×n ±5° (n: No. of turns)

Mechanical Travel:

360°×n $\begin{matrix} +10^\circ \\ 0^\circ \end{matrix}$ (n: No. of turns)

Insulation Resistance:

Over 1,000MΩ at 500V.D.C.

Dielectric Strength:

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

Starting Torque:

Below 10mN·m (100gf·cm)

Stopper Strength:

Approx. 0.35N·m (3.5kgf·cm)

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

Below 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. (∅3mm, ∅3.175mm, ∅4mm, ∅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, Extra taps (Available up to 1 tap only for 10-turn model), Servomount type (Same dimensions as 22HHPS-10).