

MODEL 22HP

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

Standard Dimensions

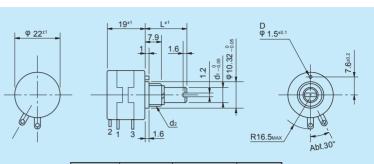


Standard Model Nos.

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.

General Specifications



Model No.	Shaft Dimensions		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 mountedwith this potentiometer by the diameter of $10.32 \text{ mm}^{+0.05}_{-0.05}$.

Standard Resistance Range:	100Ω to 50kΩ (5-turn)	Max. Working Voltage: Resist. Temperature	250V			
Range.	100Ω to $100k\Omega$ (10-turn)	Coefficient of Wire:	±20p.p.m./°C			
Total Resistance		Materials:	Shaft: Stainless steel			
Tolerance:	Standard Class ±5% (J) Precision Class ±1% (F)		Housing case: Glass-filled nylon Bushing: Glass-filled nylon			
Independent Linearity Tolerance:	$\begin{array}{rrr} 5-turn & 10-turn \\ Standard Class \pm 0.3\% & \pm 0.25\% \end{array}$		(For ganged version, the bushing is metal- brass without plating.)			
	Precision Class±0.2% ±0.1% (Within 5kΩ) (±0.25%)(±0.15%)		Terminals: Gold-plated brass (All terminals can be			
Power Rating:	1.0W (5-turn) 2.0W (10-turn)		fitted with the AMP 110 series faston			
Noise:	Within 100Ω É.N.R.		receptacle (2.8× 0.5mm)			
Electrical Travel:	360 $^{\circ}$ × n ±5 $^{\circ}$ (n: No. of turns)		or equivalents.)			
Mechanical Travel:	360 ° × n $\frac{+10}{0}$ ° (n: No. of turns)	Max. Torque exerted on fastening the				
InsulationResistance:	Over 1,000MΩ at 500V.D.C.	mounting nut to the				
Dielectric Strength: Starting Torque: Stopper Strength:	1 minute at 1,000V.A.C. Within 10mN ⋅ m (100gf ⋅ cm) Approx. 0.35N ⋅ m (3.5kgf ⋅ cm)	bushing:	Within 1.0N · m (10kgf · cm) (In case of panel thickness with over 2.5mm., the rotating torque may become heavier.)			

Mass:

Standard Resistance Values

 No. of Wire Turns
 Resistance Wire Used

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

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).