

MODEL 22HHP

- Hybrid
- Bushingmount
- Servomount
- Low-cost Item
- RoHS Compliant



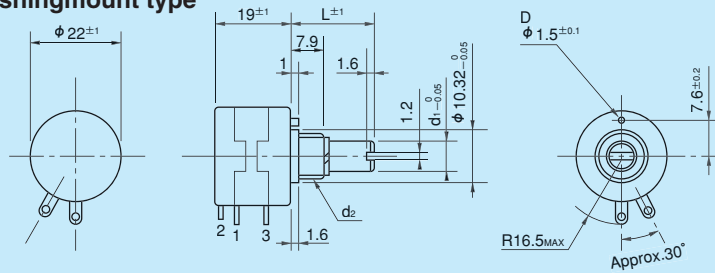
Model 22HHP-10
(Bushingmount)



Model 22HHPS-10
(Servomount)

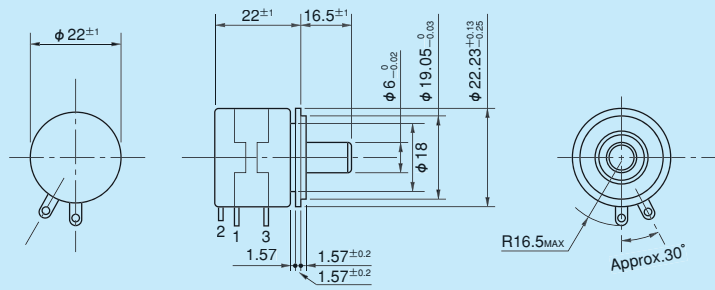
Standard Dimensions

Bushingmount type



Note: Dimension of shaft and bushing are equal to those of model 22HP series with wirewound resistive element and please refer to those dimensions and notes.

Servomount type (bronze bearing incorporated)



Standard Model Numbers

Bushingmount type	
5-turn models	22HHP-5 22HHP-5M 22HHP-5E 22HHP-5N
10-turn models	22HHP-10 22HHP-10M 22HHP-10E 22HHP-10N
Servomount type	
5-turn models	22HHPS-5
10-turn models	22HHPS-10

General Specifications

Standard Resistance Values	1k,2k,5k,10k,20k,50k (Ω) (5-turn) 2k,5k,10k,20k,50k,100k (Ω)(10-turn)		
Total Resistance Tolerance	Standard Class $\pm 10\%$ (K) Precision Class $\pm 5\%$ (J)		
Independent Linearity Tolerance		5-turn	10-turn
	Standard Class	$\pm 0.35\%$	$\pm 0.25\%$
Resolution	Standard Class	$\pm 0.2\%$	$\pm 0.1\%$
	Precision Class		
Resolution	Essentially infinite		
Output Smoothness	Within 0.05% against input voltage (5-turn)		
	Within 0.015% against input voltage (10-turn)		
Contact Resistance Variation	Within 5% C.R.V. (5-turn)		
	Within 3% C.R.V. (10-turn)		
Power Rating	1.0W (5-turn)		
	2.0W (10-turn)		
Electrical Travel	$360^{\circ} \times n \pm 5^{\circ}$ (n: No. of turns)		

Mechanical Travel	$360^{\circ} \times n^{\pm} 10^{\circ}$ (n: No. of turns)
Insulation Resistance	Over 100M Ω at 1,000V.D.C.
Dielectric Strength	1 minute at 1,000V.A.C.
Starting Torque	Within 5mN · m (50gf · cm)
Stopper Strength	Approx. 0.35N · m (3.5kgf · cm)
Resistance Temperature Coefficient	± 100 p.p.m./ $^{\circ}$ C
Appropriate fastening torque of the nut	Within 1.0N · m (10kgf · cm) (In case of panel thickness with over 2.5mm, the rotating torque may become heavier.)
Mass	Approx. 25g (Bushingmount)
	Approx. 30g (Servomount) (Both 5-turn and 10-turn)

Special Specifications Available

(In case of the potentiometer with special specifications, the general specifications and environmental specifications may change. Please consult us in advance.)

- Shaft with front and rear extension (Rear shaft with 6mm dia. and 15mm length)
- 3-turn type
- Multi-ganged (Available up to 10 gangs)
- With high torque
- Special shaft dia. (ϕ 3mm, ϕ 3.175mm, ϕ 4mm, ϕ 5mm, ϕ 6.35mm)
- Special machining on the shaft
- Metal bushing type (22HHPM with anti-rotation pin)
- Simple sealed housing
- Extra tap (Available up to 1 tap only for 10-turn)
- Slipping-clutch incorporated type (20mN · m ~ 60mN · m)