"Sakae"

MODEL 12HHP-10

● Hybrid ● Bushingmount ● Servomount ● RoHS Compliant

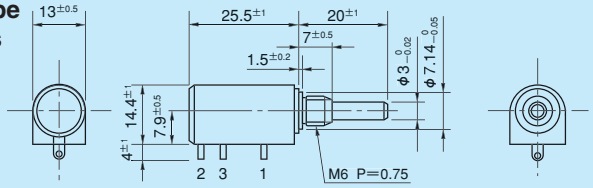
(With metric dimensions)

Model 12HHP-10
(Bushingmount)

Model 12HHPS-10
(Servomount)

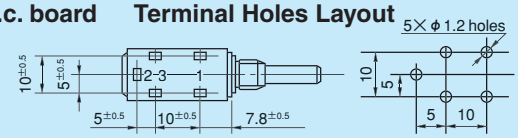
● Standard Dimensions

■ Bushingmount type
● With lug terminals



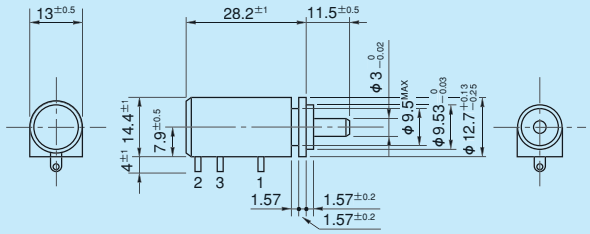
● With pin terminals for p.c. board

Terminal Holes Layout



Note: 1. 1 pc. each inner teeth washer and hex nut are attached.
2. Please process the mounting hole on the panel. The diameter should be 7.14mm $^{+0.05}_{0}$.

■ Servomount type



Note: Servomount type with pin terminals for p.c. board is also available.

● Standard Model Numbers

Bushingmount type	
With lug terminals	12HHP-10
With pin terminals for p.c. board	12HHP-10P
Servomount type	
12HHPS-10	

● General Specifications

Standard Resistance Values	2k, 5k, 10k, 20k, 50k (Ω)
Max. Practical Resistance Value	100kΩ
Total Resistance Tolerance	Standard Class ±10% (K) Precision Class ±5% (J)
Independent Linearity Tolerance	Standard Class ±0.4% Precision Class ±0.1% (±0.2% in case of within 5kΩ)
Resolution	Essentially infinite
Output Smoothness	Within 0.05% against input voltage
Contact Resistance Variation	Within 5% C.R.V.
Power Rating	1.0W
Electrical Travel	3,600° ±5°
Mechanical Travel	3,600° $^{+15°}_{0°}$

Insulation Resistance	Over 1,000MΩ at 500V.D.C.
Dielectric Strength	1 minute at 1,000V.A.C.
Starting Torque	Within 3mN・m (30gf・cm) (Bushingmount type) Within 2mN・m (20gf・cm) (Servomount type)
Stopper Strength	Approx. 0.15N・m (1.5kgf・cm)
Appropriate fastening torque of the nut	Within 0.8mN・m (8kgf・cm)
Resistance Temperature Coefficient	±100p.p.m./℃
Mass	Approx. 10g

● Special Specifications Available

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

● 5-turn type (S12HHP-5) ● Shaft with front and rear extension (Rear shaft with 0.8mm dia. and 10mm length)

● Special machining on the shaft ● Simple sealed housing (in case of servomount type, the housing length becomes longer by 1.2mm.)

Features of Hybrid resistive element

The hybrid resistive element type potentiometer is the upgraded potentiometer, in which the advantages of a wirewound resistive element are combined with those of a film type resistive element.

■ **Main Features**
- High stability of resistance value
- Lower resistance temperature coefficient
- Essentially infinite resolution
- Less resistance variation
- Long life expectancy

■ **Construction**