

●Standard Model Nos.

Bushingmount type:

With lug terminals:

12HP-5E (5-turn)
12HP-10E (10-turn)

With pin terminals for p.c. board:

12HP-5EP (5-turn)
12HP-10EP (10-turn)

Servomount type:

12HPS-5E (5-turn)
12HPS-10E (10-turn)

●General Specifications

Standard Resistance

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

Max. Practical

Resistance Value: 70kΩ (5-turn)
150kΩ (10-turn)

Total Resistance

Tolerance: Standard Class ±3% (H)
Precision Class ±1% (F)

Independent Linearity

Tolerance: 5-turn 10-turn
Standard Class ±0.35% ±0.25%
Precision Class ±0.2% ±0.1%
(Below 5kΩ) (±0.25%) (±0.15%)

Power Rating:

0.75W (5-turn)
1.5W (10-turn)

Noise:

Below 100Ω E.N.R.

Electrical Travel:

360° × n ± 5° (n: No. of turns)

Mechanical Travel:

360° × n ± 15° (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 3mN·m (30gf·cm)
(Bushingmount type)
Below 2mN·m (20gf·cm)
(Servomount type)

Stopper Strength:

Approx. 0.15N·m (1.5kgf·cm)

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

Below 0.8N·m (8kgf·cm)

Max. Working

Voltage:

450V

Resist. Temperature

Coefficient of Wire:

±20p.p.m./°C

Mass:

Approx. 10g
(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
12HP-5E	920	1,190	1,250	1,510	1,790	2,380	3,120	3,800	5,430	—
12HP-10E	1,690	1,850	2,560	2,500	3,030	4,170	4,760	6,250	8,330	10,870
Resist. Wire Used	Cu-Ni System			Ni-Cr System						

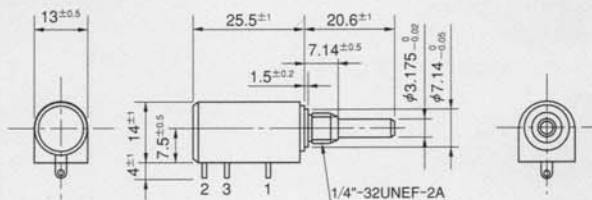
●Special Specifications Available

3-turn type (S12HP-3), Lower resistance values (20Ω, 50Ω), 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 1.5mm).

●Standard Dimensions

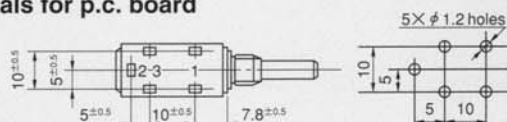
■Bushingmount type

●With lug terminals



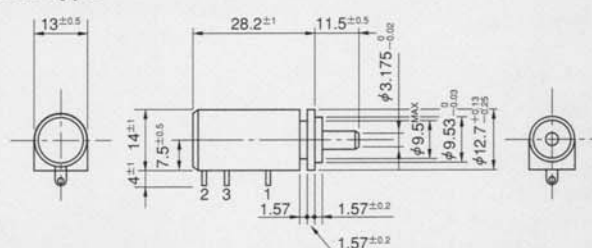
●With pin terminals for p.c. board

Terminal Holes Layout



■Servomount type

Note: 1 pc. each inner teeth washer and hex nut are attached.



Note: 1. Outer dimensions of 5-turn version are same as those of 10-turn.
2. Servomount type with pin terminals for p.c. board is also available.
3. Please process the mounting hole on the panel to be mounted with this potentiometer by the diameter of 7.14mm +0.05.