



## ■ 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%
(within 5kΩ)	(±0.25%)	(±0.15%)

### Power Rating:

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

### Noise:

Within 100Ω E.N.R.

### Electrical Travel:

360° Xn ±5° (n: No. of turns)

### Mechanical Travel:

360° Xn  $^{+15}_{0}$ ° (n: No. of turns)

### Insulation Resistance:

Over 1,000 MΩ at 500 V.D.C.

### Dielectric Strength:

1 minute at 500 V.A.C.

### Starting Torque:

Within 3mN·m (30gf·cm)

(Bushingmount type)

Within 2mN·m (20gf·cm)

(Servomount type)

Approx. 0.15N·m (1.5kgf·cm)

### Stopper Strength:

### Max. Torque exerted

### on fastening the

### mounting nut to

### the bushing:

Within 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-5	9 2 0	1 , 1 9 0	1 , 2 5 0	1 , 5 1 0	1 , 7 9 0	2 , 3 8 0	3 , 1 2 0	3 , 8 0 0	5 , 4 3 0	-
12HP-10	1 , 6 9 0	1 , 8 5 0	2 , 5 6 0	2 , 5 0 0	3 , 0 3 0	4 , 1 7 0	4 , 7 6 0	6 , 2 5 0	8 , 3 3 0	1 0 , 8 7 0
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).

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