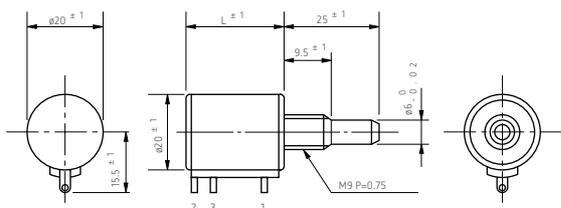




**α 20HP**

**Standard dimensions**

**Bushingmount type**



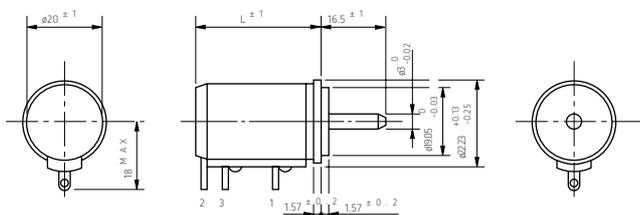
Model No.	L
20HP-5S	1 8
20HP-10S	2 5 . 5



Model 20HP-10S

Note: 1 pc. inner teeth washer and 2 pcs. hex nuts are attached

**Servomount type**



Model No.	L
20HP-5S	2 4 . 5
20HP-10S	3 2

**Standard Model Nos.**

**Bushingmount type:**

- 20HP-5S (5-turn)
- 20HP-10S (10-turn)

**Servomount type:**

- 20HPS-5S (5-turn)
- 20HPS-10S (10-turn)

**General Specifications**

**Standard Resistance**

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

**Max. Practical Resistance Value:** 100kΩ (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	±0.3%	±0.2%
Precision Class (within 5kΩ)	±0.2% (±0.25%)	±0.1% (±0.15%)

**Power Rating:** 1.0W (5-turn)  
2.0W (10-turn)

**Noise:** Within 100Ω E.N.R.

**Electrical Travel:** 360° Xn ±5° (n: No. of turns)

**Mechanical Travel:** 360° Xn <sup>+10</sup>/<sub>0</sub>° (n: No. of turns)

**Insulation Resistance:** Over 100 MΩ at 1,000 V.D.C.

**Dielectric Strength:** 1 minute at 1,000 V.A.C.

**Starting Torque:** Within 5mN·m (50gf·cm) (Bushingmount type)  
Within 3mN·m (30gf·cm) (Servomount type)

**Stopper Strength:** Approx. 0.9N·m (9kgf·cm) (Bushingmount type)  
Approx. 0.6N·m (6kgf·cm) (Servomount type)

**Max. Working Voltage:** 900V

**Resist. Temperature Coefficient of Wire:** ±20p.p.m./°C

**Mass:** Approx. 25g (5-turn)

Approx. 30g (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
12HPC-5	1,100	1,500	2,000	2,500	2,400	3,200	3,900	4,800	5,500	※ 6,500
12HPC-10	1,800	2,200	3,200	4,000	5,000	5,000	6,400	7,800	10,000	11,000
Resist. Wire Used	Cu-Ni System					Ni-Cr System				

Note: Mark ※ shows value at special higher practical resistance

■ **Special Specifications Available**

3-turn type (S20HP-3S), lower resistance values (10Ω, 20Ω, 50Ω), extra taps (available up to 1 tap), multi-ganged (available up to 2 gangs), shaft with front and rear extension (rear shaft with 2mm dia. and 10mm length), shaft dia. (ø6.35mm) • bushing with inch dimensions, special machining on the shaft, simple sealed housing (expect servomount type), slipping-clutch incorporated type (S20HP-10S-1782, 20mN•m~60mN•m), with a limit-switch adaptor, with pin terminals for p.c. board (20HP-5P, 20HP-10P).

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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