

# MODEL 10HP

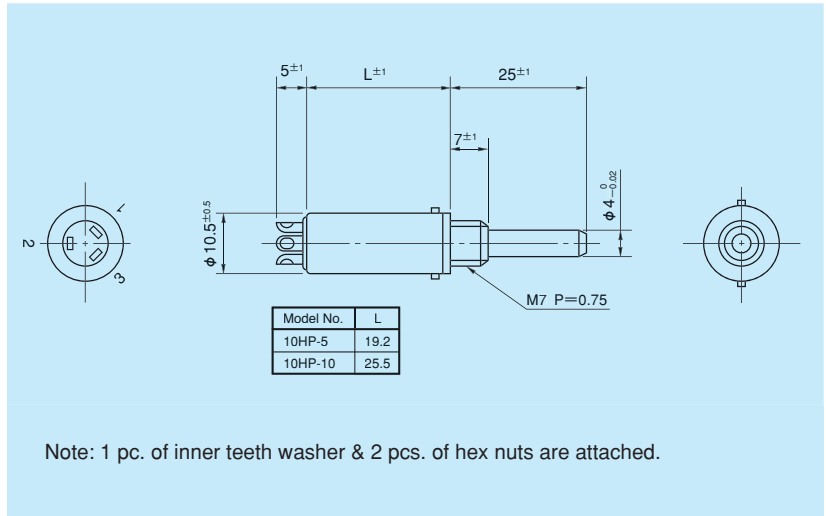
● Wirewound ● Bushingmount ● RoHS Compliant

## ● Standard Dimensions



Model 10HP-10

World's smallest 10-turn pot.



## ● Standard Model Numbers

|                |         |
|----------------|---------|
| 5-turn models  | 10HP-5  |
| 10-turn models | 10HP-10 |

## ● General Specifications

|  |   |                   |                   |
|--|---|-------------------|-------------------|
| <b>Standard Resistance Range</b>       | 100,200,500,1k,2k,5k,10k,20kΩ (5-turn,10-turn)    |                   |                   |
| <b>Max. Practical Resistance Value</b> | 50kΩ (5-turn, 10-turn)<br>100kΩ (10-turn)         |                   |                   |
| <b>Total Resistance Tolerance</b>      | Standard Class ±3% (H)<br>Precision Class ±1% (F) |                   |                   |
| <b>Independent Linearity Tolerance</b> |   | 5-turn            | 10-turn           |
|  | Standard Class                                    | ±0.35%            | ±0.25%            |
|  | Precision Class<br>(Within 5kΩ)                   | ±0.2%<br>(±0.25%) | ±0.1%<br>(±0.15%) |
| <b>Power Rating</b>                    | 0.5W (5-turn)<br>1.0W (10-turn)                   |                   |                   |
| <b>Noise</b>                           | Within 100Ω E.N.R                                 |                   |                   |

|  |   |
|--|---|
| <b>Electrical Travel</b>                       | 360° × n ±5° (n: No. of turns)                |
| <b>Mechanical Travel</b>                       | 360° × n + 30° <sub>0</sub> (n: No. of turns) |
| <b>Insulation Resistance</b>                   | Over 100 MΩ at 500V.D.C.                      |
| <b>Dielectric Strength</b>                     | 1 minute at 500V.A.C.                         |
| <b>Starting Torque</b>                         | Within 3mN · m (30gf · cm)                    |
| <b>Stopper Strength</b>                        | Approx. 0.1N · m (1kgf · cm)                  |
| <b>Appropriate fastening torque of the nut</b> | Within 1N · m (10kgf · cm)                    |
| <b>Resistance Temperature Coefficient</b>      | ±20p.p.m./°C                                  |
| <b>Mass</b>                                    | Approx. 10g (5-turn)                          |
|  | Approx. 10g (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    |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|
| 10HP-5            | 750   | 620   | 830   | 1,050 | 1,330 | 1,820 | 2,300 | 2,940 | ※ 3,900 | —       |
| 10HP-10           | 1,200 | 1,500 | 1,350 | 1,670 | 2,100 | 2,860 | 3,640 | 4,550 | ※ 6,250 | ※ 7,850 |
| Resist. Wire Used | Cu-Ni |       |       | Ni-Cr |       |       |       |       |         |         |

Note: Mark※shows special high resistance value.

## ● Special Specifications Available

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

- 3-turn type (S10HP-3)
- Shaft dia. (φ 3.175mm) & bushing with inch dimension
- Special machining on the shaft
- Shaft with front and rear extension (Rear shaft with 0.8mm dia. and 10mm length)