HONGKONG PAT. No.751 of 1984 SINGAPORE PAT. No.372/84

# Standard Dimensions

# Model 12HPC-10 Model 12HPC-10P Model 12HPC-10W

### Standard Model Nos.

# **Bushingmount type:**

With lug terminals:

12HPC-5 (5-turn)

12HPC-10 (10-turn)

With pin terminals for p.c. board:

12HPC-5P (5-turn)

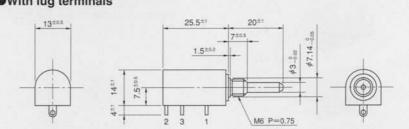
12HPC-10P (10-turn)

With rear lug terminals:

12HPC-5W (5-turn)

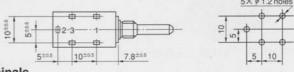
12HPC-10W (10-turn)

# With lug terminals

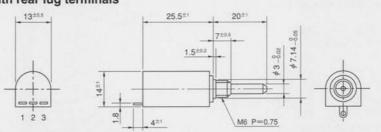


# With pin terminals for p.c. board

# **Terminal Holes Layout**



# With rear lug terminals



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

- 2. Outer dimensions of 5-turn version are same as those of 10-turn.
- 3. Please process the mounting hole on the panel to be mounted with this potentiometer by the diameter of 7.14mm+0.05.

## General Specifications

Standard Resistance

Range:

100  $\Omega$  to 50k  $\Omega$  (5-turn)

 $100 \Omega$  to  $100 k\Omega$  (10-turn)

**Total Resistance** 

Tolerance:

Standard Class ±3% (H)

Precision Class ±1% (F)

Independent Linearity

Tolerance:

5-turn 10-turn

Standard Class  $\pm 0.35\%$   $\pm 0.25\%$ 

Precision Class ±0.2% ±0.1%

(Below  $5k\Omega$ ) ( $\pm 0.25\%$ )( $\pm 0.15\%$ )

**Power Rating:** 

0.75W (5-turn)

Noise:

1.5W (10-turn)

Below 100 Ω E.N.R.

**Electrical Travel:** 

 $360^{\circ} \times n \pm 5^{\circ}$  (n: No. of turns)

Mechanical Travel:

 $360^{\circ} \times n + 15^{\circ}_{0^{\circ}}$  (n: No. of turns)

Insulation Resistance: Over 1,000M  $\Omega$  at 500V.D.C. 1 minute at 1,000V.A.C. Dielectric Strength: Below 3mN·m (30gf·cm) Starting Torque: Approx. 0.15N·m (1.5kgf·cm) Stopper Strength:

Max. Torque exerted on fastening the mounting nut to the

Below 0.8N · m (8kgf · cm) bushing:

Max. Working Voltage: 450V

Resist. Temperature

Coefficient of Wire: Mass:

±20p.p.m./℃

Approx. 10g (Both 5-turn and 10-turn)

# Standard Resistance Values No. of Wire Turns Resistance Wire Used

Resist. Value ( $\Omega$ )	100	200	500	1k	2k	5k	10k	20k	50k	100k
12HPC-5	920	1,190	1,250	1,510	1,790	2,380	3,120	3,800	5,430	_
12HPC-10	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 (S12HPC-3), Lower resistance values (20 Ω, 50 Ω), Shaft with front and rear extension (Rear shaft with 0.8mm dia. and 10mm length), Special machining on the shaft, Simple sealed housing.