

MECHANICAL SPECIFICATIONS

 Mechanical Rotation angle: 	235° ± 5°
- Electrical Rotation angle:	200° ± 20°
– Torque:	0.2 to 2 Ncm. (0.3 to 2.7 in-oz)
– Stop torque:	> 4 Ncm. (> 5.6 in-oz)
– Life*:	Up to 10K cycles

* Others check availability.

** Up to 85°C depending on application.

PT-6 6 mm Carbon Potentiometer

FEATURES

- Carbon resistive element.
- IP54 protection according to IEC 60529.
- Polyester substrate.
- SMD version available (see PS-6 datasheet).
- Also upon request:
 - Wiper positioned at initial, 50% or fully clockwise.
 - Supplied in magazines for automatic insertion.
 - Long life model (10K cycles).
 - Housing available in self extinguishable plastic (UL94V0).
 - · Mechanical detents.

ELECTRICAL SPECIFICATIONS

- Range of values* $220\Omega \leq Rn \leq 5M \text{ (Decad. 1.0 2.0 2.2 2.5 4.7 5.0)}$
- Standard tolerance*: 220 $\Omega \leq Rn \leq 1M \; \Omega \; \dots \quad \pm \; 20\%$ 1M $\Omega \; < Rn \leq 5M \; \Omega \; \dots \quad \pm \; 30\%$
- -Max. Voltage: 100 VDC (lin), 50 VDC (no lin)
- Nominal Power 50°C (122°F) (see power rating curve)
 0.1 W (lin) 0.05 W (no lin)
- Taper*: Lin; Log; Alog (Log & Alog. only Rn≥ 1K)
- -Residual resistance*: ≤ 0.5 % Rn (5 Ω min)
- Equivalent Noise Resistance: \leq 3% Rn (3 Ω min)
- -Operating Temperature**: -25°C +70°C (-13°F +158°F)



Online product configurator: https://piher.net/configurator/2017/08/24/pt6-6-configurator-potentiometer/

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HOW TO ORDER CUSTOM DRAWING

STANDARD OPTIONS

PT-6 KV	+	DRAWING NUMBER	(Max.	16 characters))
1 1 0 1 0		DIVINING NOMBER	(inital.	To onuractory	1

This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

Packing	Bulk
Rotor colour	White
Wiper position	Initial
Crimping	Yes
Knob colour	White
Mechanical life	1000 cycles



MOUNTING METHODS. VARIATIONS

V = Horizontal mounting / Vertical adjust









H = Vertical mounting / Horizontal adjust



SPDT. function



KNOBS

If you wish to use your own custom plastic shaft/knob/actuator please contact Piher for advice about compatible materials.

Ref.: 5155 / Fig. 1

Default knob. Standard colour: white.



Ref.: 5141 / Fig. 3

Colour: grey. For other colours check availability.



SHAFT / KNOB

Ref.: 6172

Colour: grev. For other colours check availability

Ref.: 6132 / Fig. 2

Shaft. Not suitable for magazine packaging







TESTS		TYPICAL VARIATIONS	POW	ER RATING CURVE
ELECTRICAL LIFE MECHANICAL LIFE (CYCLES) TEMPERATURE COEFFICIENT THERMAL CYCLING DAMP HEAT VIBRATION (for each plane X,Y,Z)	1.000 h. @ 50°C: 0.1 W 1000 @ 10 CPM15 CPM -25°C; +70°C 16 h. @ 85°C; 2h. @ -25°C 500 h. @ 40°C @ 95% HR 2 h. @ 10 Hz 55 Hz.	±5 % ±4 % (Rn < 1 MΩ) ±300 ppm (Rn < 100 K) ±2.5 % ±5 % ±2 %	100 % (%) ≯ 40 %	
IOTE: Out of range values may not comply with	these results.			50° 70° ►°C

RECOMMENDED CONNECTIONS







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The product information in this catalogue is for reference purposes. Please consult for the most up to date and accurate design information.

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Note: Piher products can be adapted to meet customer's requirements. Due to continuous process improvement, specifications are subject to change without notice.

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