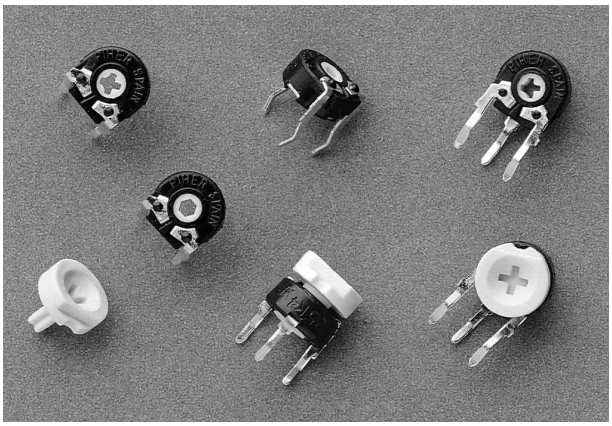
EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

PIHER

PT-6 6 mm Carbon Potentiometer



FEATURES

- Carbon resistive element.
- Dust proof enclosure.
- Polyester substrate.
- Also upon request:
  - Wiper positioned at 50% or fully clockwise
  - Supplied in magazines for automatic insertion
  - Long life model PT-6...E (10,000 cycles)
  - Without crimping model. PT-6...SC
  - Housing available in self extinguishable plastic (VL94V0)

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)

ELECTRICAL SPECIFICATIONS

– Range of values (*)
220Ω ≤ Rn ≤ 5M (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
– Tolerance (*): 220 Ω ≤ Rn ≤ 1M Ω ------ ± 20%
1M Ω < Rn ≤ 5M Ω ------ ± 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 (*) (Log & Alog. only Rn >1K)
Lin; Log; Alog.
– Residual resistance: ≤ 5.10^{-3} Rn (2Ω min)
– Equivalent Noise Resistance: ≤ 3% Rn (3Ωmin)
– Operating Temperature**: -25°C +70°C (-13°F +158°F)

(*) Others upon request. ** Up to 85°C depending on application

HOW TO ORDER

STANDARD | OPTIONAL EXTRAS

PT-6	K	V	221	A	2020					
Series: PT-6	Rotors: K M W X (See note 1)	Mounting method: H V	Value: 221 = 220 Ω … 505 = 5 MΩ, 000 = CM (See note 2)	Taper: A = Lin. B = Log. C = Alog.	Tolerance: 2020 = +/-20% 3030 = +/-30% (See note 3)	Life: E= Extended life (See note 4)	Magazines: T *Only V	Knob/rotor colour: RO = Red NE = Black VE = Green AZ = Blue GR = Grey (See note 5)	Wiper position: PM = 50% PF = Final position	Crimping: SC = Not crimped

A Dual Gang version is available
(see Low Torque Ganged Trimmer data sheet).

NOTES:

(1) Adjust. type: «X» is only available with horizontal adjusting method.
(2) Value: – Code: 22 1 = 220 Ω (22: First two digits; 1: Number of zeros)
– 000 = CM = Switch (see diagram)
(3) Tolerance (non standard): Upon request: Code eg.: $^{+7}_{-5}$ = 07 05 (07: Positive tolerance; 05: Negative tolerance)
(4) Life: • Normal = 500 cycles • Long = 10,000 cycles
(5) Potentiometer without knob, only the rotor. Potentiometer with knob, only the knob.

NOTE: The information contained here in may be changed without prior notice.

HOW TO ORDER CUSTOM DRAWING

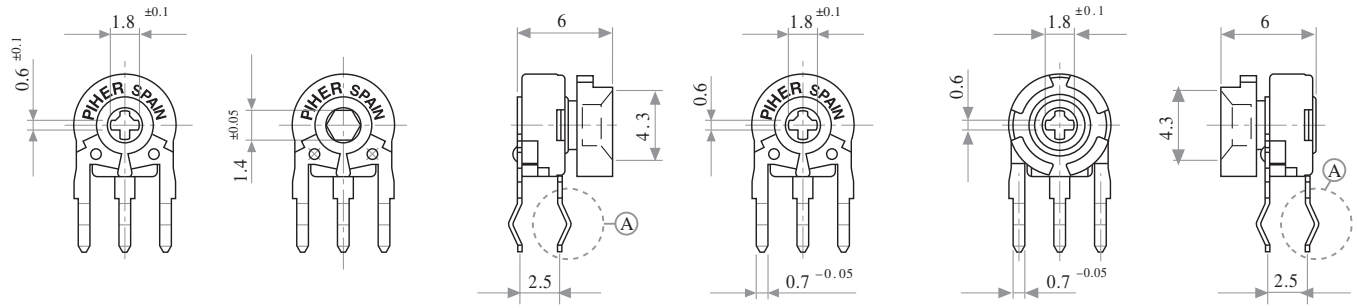
PT-6 KV + DRAWING NUMBER (Max. 16 characters)

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

STANDARD OPTIONS

Mechanical life	500 cycles
Packing	Bulk
Rotor colour	White
Wiper position	Initial
Crimping	With crimping

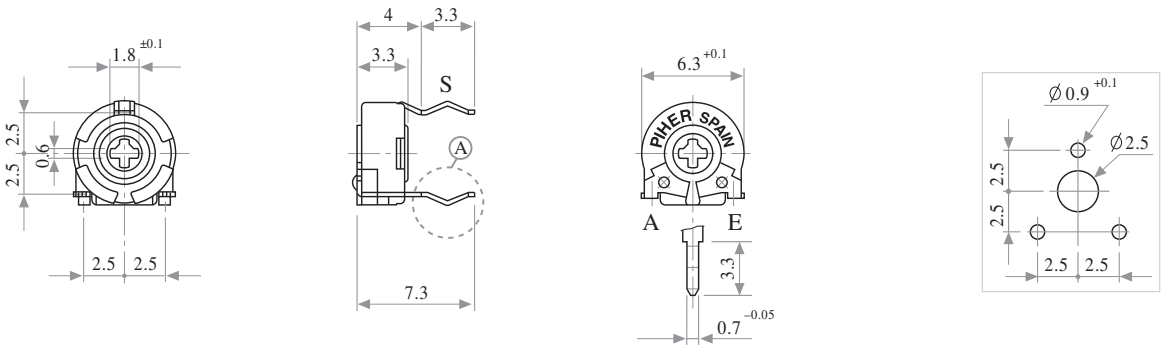
ROTORS



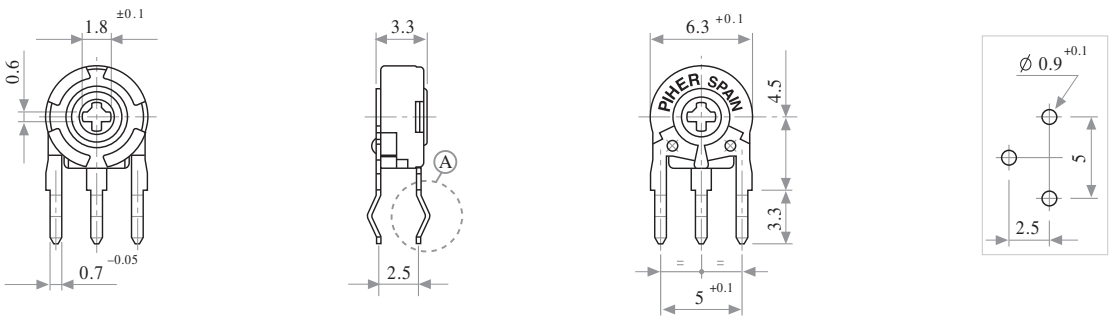
K= Cross slot thru hole M= Hexagonal thru hole X = Adjustable from collector side W= Adjustable from terminal side

MOUNTING METHODS. VARIATIONS

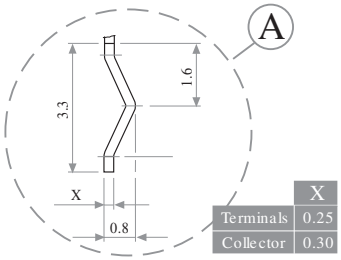
v = Horizontal mount / Vertical adjust



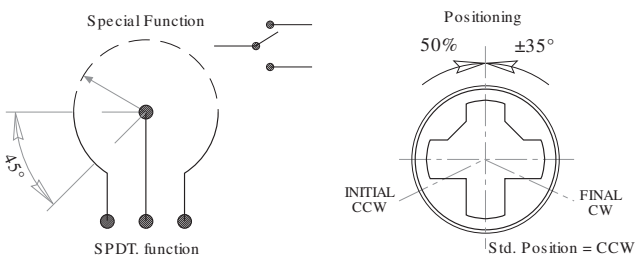
h = Vertical mount / Horizontal adjust



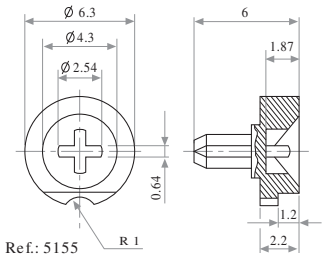
DETAIL



OPTIONS



KNOB



PACKAGING

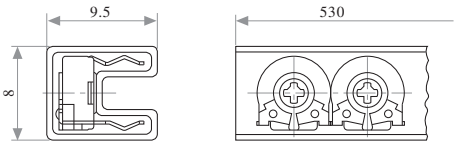
BOXES

Model	Units
All	1.000

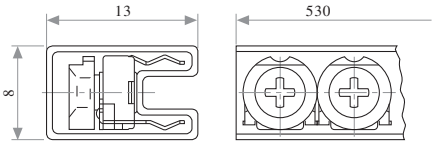
AUTOMATIC INSERTION

Magazines	Units per magazine
PT-6 V & PT-6 WV	80 Pieces

Magazines for PT-6 V with or without crimp.

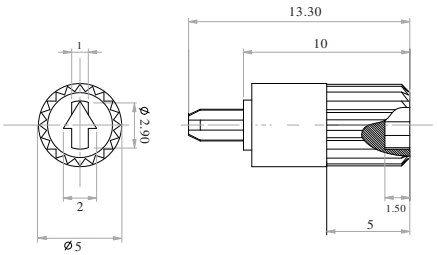


Magazines for PT-6 WV with or without crimp.



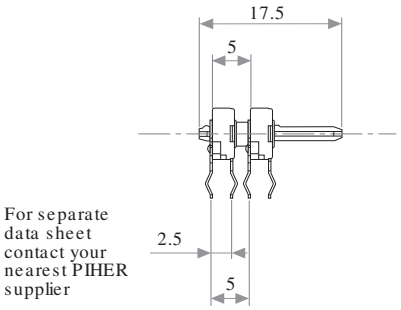
SHAFT

Ref.: 6132



Please order Shaft Separately

PT-6 DUAL GANG VERSION



For separate data sheet contact your nearest PIHER supplier

TESTS

TYPICAL VARIATIONS

ELECTRICAL LIFE	1.000 h. @ 50°C: 0.1 W	±5 %
MECHANICAL LIFE (CYCLES)	200 @ 10 CPM ...15 CPM	±3 % (Rn < 1 MΩ)
TEMPERATURE COEFFICIENT	–25°C; +70°C	±300 ppm (Rn < 100 K)
THERMAL CYCLING	16 h. @ 85°C; 2h. @ –25°C	±2.5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 55 Hz.	±2 %

NOTE: Out of range values may not comply with these results.

POWER RATING CURVE

