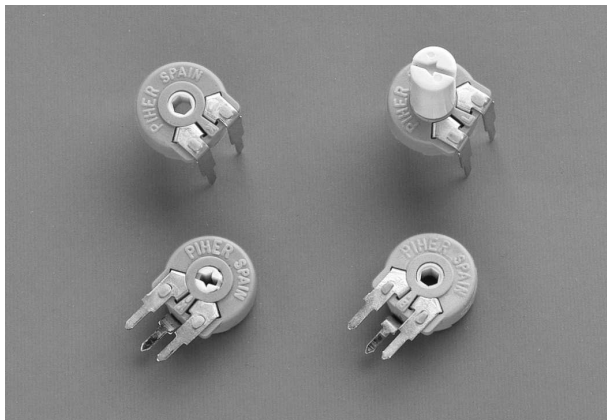




FEATURES

- Cermet resistive element.
- Dust proof enclosure.
- Plastic material according to UL94V-0
- Alumina substrate.
- Also upon request:
 - Wiper positioned at 50% or fully clockwise.
 - Supplied in magazines for automatic insertion.
 - Long life model for low cost control pot. applications
 - Special tapers
 - Mechanical detents
 - Low & extra low torque versions
 - Available as SPDT switch
 - Laser trimming for tighter tolerances

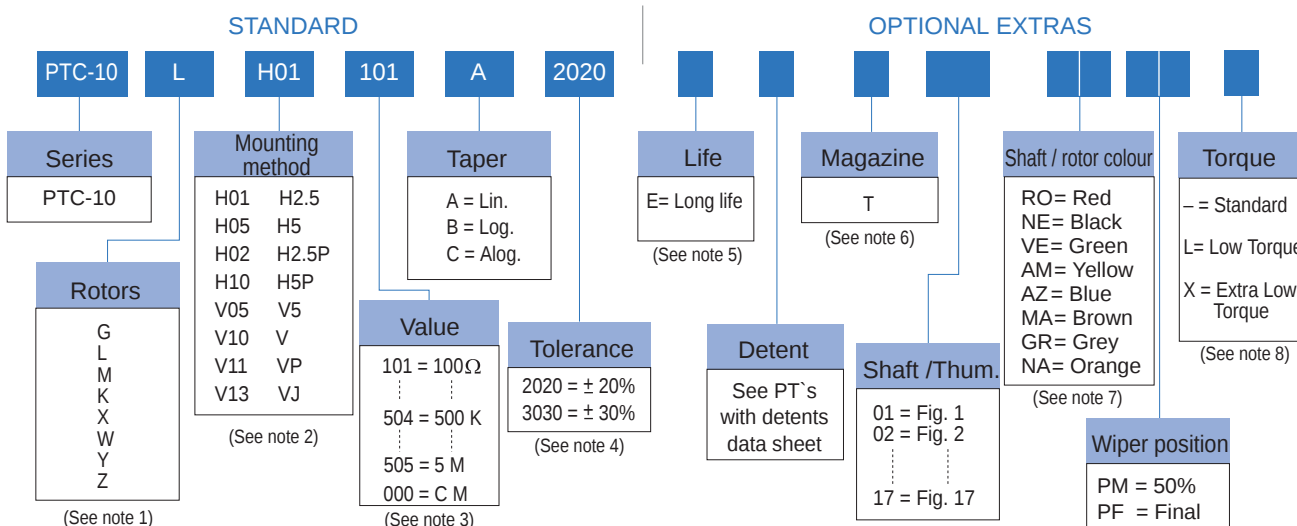
MECHANICAL SPECIFICATIONS

- Mechanical rotation angle: $235^\circ \pm 5^\circ$
- Electrical rotation angle: $220^\circ \pm 20^\circ$
- Torque: 0.4 to 2 Ncm.
(0.6 to 2.7 in-oz)
- Stop torque: > 5 Ncm. (> 7 in-oz)

ELECTRICAL SPECIFICATIONS

- Range of values (*)
 $100\Omega \leq R_n \leq 5\text{ M}$ (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
 - Tolerance (*): $100\Omega \leq R_n \leq 1\text{ M}\Omega$ $\pm 20\%$
 $1\text{ M}\Omega < R_n \leq 5\text{ M}\Omega$ $\pm 30\%$
 - Max. Voltage: 200 VDC (lin) 100 VDC (no lin)
 - Nominal Power 70°C (158°F) (see power rating curve)
0.33 W (lin) 0.17 W (no lin)
 - Taper (*) (Log. & Alog. only $R_n > 1\text{ K}$) Lin ; Log; Alog.
 - Residual resistance: $\leq 5 \cdot 10^{-3} R_n$ (2 Ω min.)
 - Equivalent Noise Resistance: $\leq 3\% R_n$ (3 Ω min.)
 - Operating temperature: $-40^\circ\text{C} + 90^\circ\text{C}$ ($-40^\circ\text{F} + 194^\circ\text{F}$)
- (*) Others upon request

HOW TO ORDER

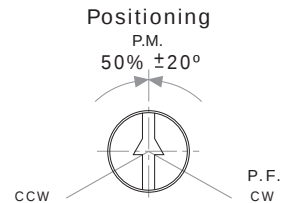
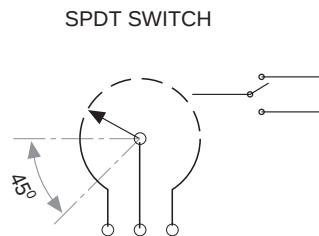


NOTES:

- (1) "Z" adjustment only available on "H" versions
- (2) Terminal styles: "P" & "J" are crimped terminals
- (3) Value Example: Code: 10 $\frac{1}{1}$ = 100 Ω
 → Numb of zeros
 → First two digits of the value. 000 = CM: SPDT switch 45°
- (4) Non standard tolerance, upon request. Example: +7% Code: 07 05
 → negative tolerance
 → positive tolerance
- (5) Life
 - Standard 100 cycles
 - Long life 10000 cycles
- (6) Magazines: not available with the H10, V05 and V13 models, nor with adjustment types X, W, Y, Z.
 Non flammable: housing, rotor and shaft.
- (7) Colour shaft/rotor:
 - Potentiometer without shaft: only rotor
 - Potentiometer with shaft: only shaft
- (8) Low Torque: 0.25 to 1 Ncm (per pot.)
 Extra Low Torque: 0.1 to 0.4 Ncm (per pot.)
 No detent option available for low and extra low torque models. No shaft or thumbwheel option for extra low torque models.

NOTE: The information contained here should be used for reference purposes only.

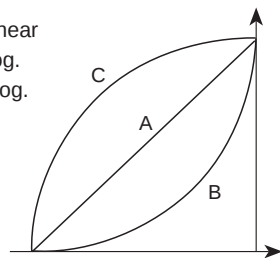
OPTIONS



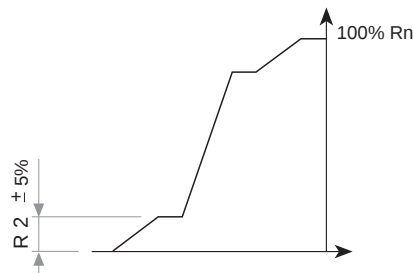
Std. Position = CCW

TAPERS

A = Linear
B = Log.
C = Alog.

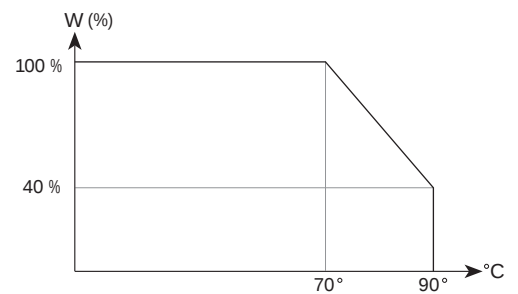


Standard



Special example

POWER RATING CURVE



NOTE = Please note relative terminal positions when ordering non linear tapers.

TESTS

TYPICAL VARIATIONS

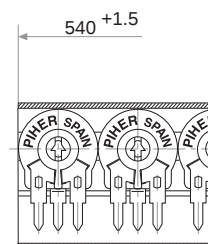
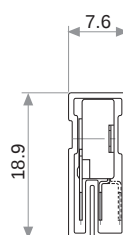
ELECTRICAL LIFE	1.000 h. @ 70°C; 0.33 W	$\pm 5\%$
MECHANICAL LIFE (CYCLES)	100 @ 10 CPM ...15 CPM	$\pm 3\%$ ($R_n < 1\text{ M}\Omega$)
TEMPERATURE COEFFICIENT	-40°C; +90°C	$\pm 100\text{ ppm}$ ($R_n < 100\text{ }\pm K$)
THERMAL CYCLING	16 h. @ 90°C; 2h. @ -40°C	$\pm 2.5\%$
DAMP HEAT	500 h. @ 40°C @ 95% HR	$\pm 5\%$
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 55 Hz.	2 %

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

PACKAGING

BOXES

Model	Units
Without shaft	500 (40 x 85 x 185 mm.)
With thumbwheel	400 (40 x 85 x 185 mm.)
With shaft	200 (40 x 85 x 185 mm.)

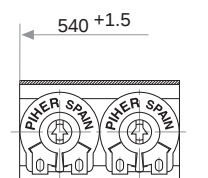
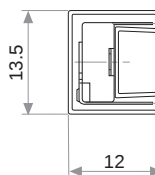


Magazines for PTC-10 h 2.5; h 5

Also crimped term. h 2.5 P

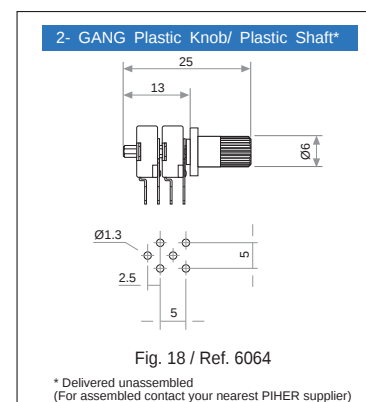
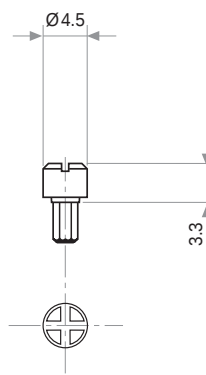
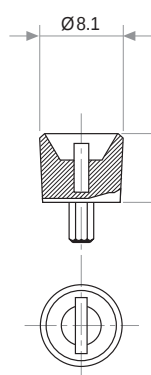
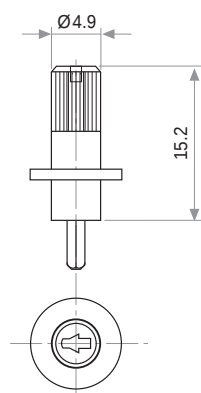
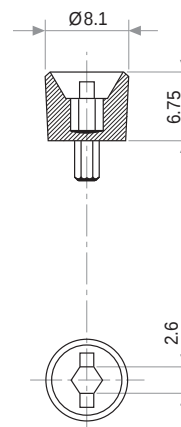
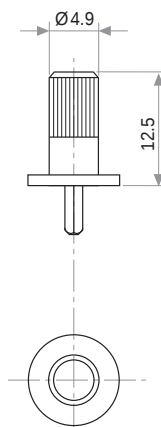
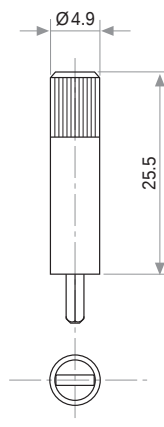
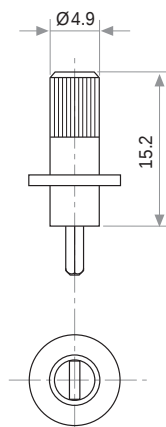
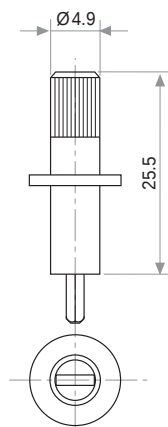
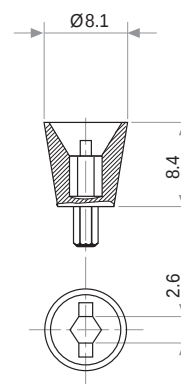
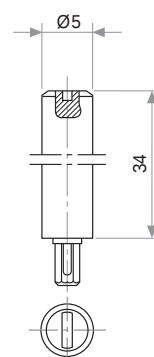
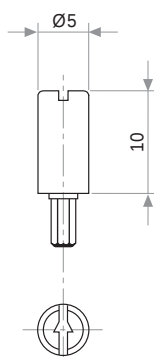
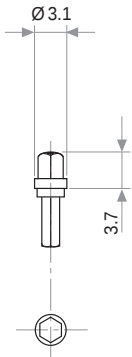
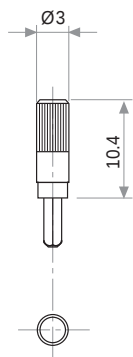
AUTOMATIC INSERTION

Magazines	Units
PTC-10H & PTC-10V	50 Pieces



Magazines for PTC-10 V

Also crimped term. VP



THUMBWHEELS

