PIHFR



T-18

18 mm Carbon Potentiometer

FEATURES

- Carbon resistive element.
- Dust proof enclosure.
- With or without actuating knob
- Optional SPST switch

MECHANICAL SPECIFICATIONS

- Mechanical rotation angle: $255^{\circ} \pm 5^{\circ}$

- Electrical rotation angle: 220° ± 20°

- Torque: 0.5 to 1.5 Ncm. (0.7 to 2.1 in-oz)

- Stop torque: > 40 Ncm. (> 56 in-oz)

ELECTRICAL SPECIFICATIONS

Range of values* $100\Omega \le Rn \le 5 M$ (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)

- Tolerance*:

- Max. Voltage: 200 VDC (lin) 100 VDC (no lin)

- Nominal Power 50°C (122°F) (see power rating curve) 0.25 W (lin) 0.12 W (no lin)

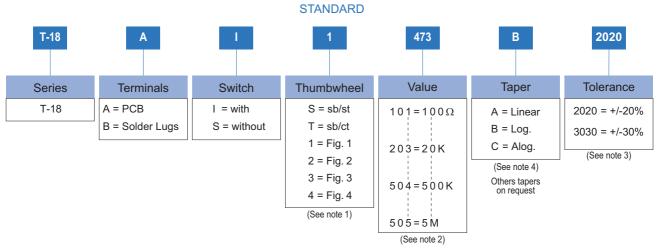
- Taper* (Log. & Alog. only Rn > 1K) Lin; Log; Alog.

– Residual resistance*: $\leq 0.5\%$ Rn (5 Ω min.)

– Equivalent Noise Resistance: \leq 3% Rn (3 Ω min.)

- Operating temperature**: -25°C + 70°C (-13°F + 158°F)

HOW TO ORDER



NOTES:

(1) Thumbwheel: S = without knob, without screw T = without knob, with screw

Fig. 1, 2 y 3: countersunk knob Fig. 4: knob with screw knob colour: Black

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

(2) Value: · Code:

Others values upon request.

(3) Tolerance (non standard), upon request. Rotary switch with Alog. curve is not available.

(4) Switch option not available with antilog taper.

Example code: $+7 = \frac{07}{1} = \frac{05}{1}$ negative tolerancepositive tolerance

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

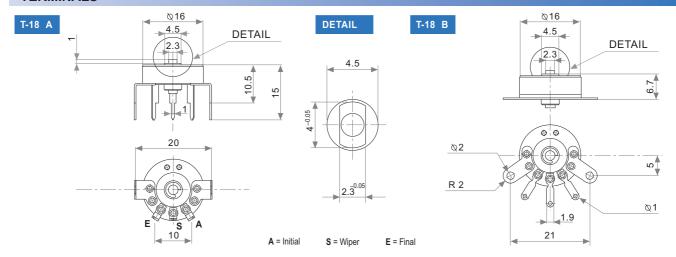
^{*} Others upon request.

^{**} Up to 85°C depending on application.

T-18 A I + DRAWING NUMBER (Max. 16 digits)

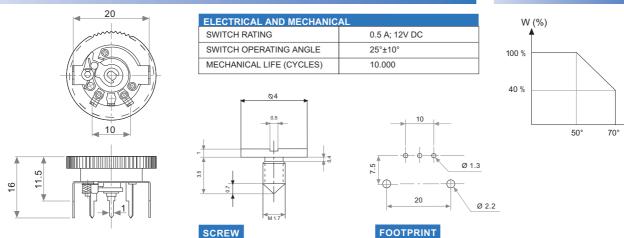
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

TERMINALS

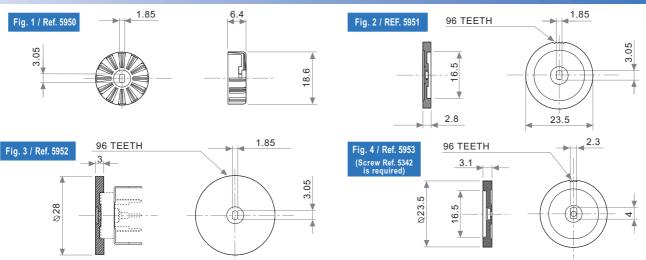


SWITCH

POWER RATING CURVE



THUMBWHEEL

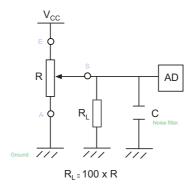


TESTS		TYPICAL VARIATIONS
ELECTRICAL LIFE	1.000 h. @ 50°C; 0.25 W	±5 %
MECHANICAL LIFE : POT.	25.000 (10-15 CPM)	±3 % (Rn < 1 M)
TEMPERATURE COEFFICIENT	–25 ° C; +70 ° C	±300 ppm (Rn <100 K)
THERMAL CYCLING	16 h. @ 85 ° C; 2h @ -25 ° C	±2.5 %
DAMP HEAT	500 h. @ 40 ° C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz - 55 Hz.	±2 %

RECOMMENDED CONNECTIONS

Piher potentiometer's recommended connection circuit for a position sensor or control application.

(voltage divider circuit electronic design).



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