PIHER



MECHANICAL SPECIFICATIONS

| - Mechanical angle: | 235° ± 5° |
|-----------------------|--|
| - Electrical angle: | 220° ± 20° |
| – Torque: | 0.5 to 2.5 Ncm. (0.71 to 3.5 in-oz) |
| - Stop torque: | > 25 Ncm. (> 35.5 in-oz) |
| – Nut Torque: | > 40 Ncm. (56.6 in-oz) |
| - Mechanical life***: | \geq 10K cycles |
| | |

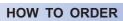
SM/SMC-10 ^{10 mm Carbon/} Cermet Potentiometer

FEATURES

- Excellent low price control potentiometer.
- Available in Carbon (SM-10) and Cermet (SMC-10).
- Based on the PT-10 / PTC-10 series.
- Enclosed in plastic housing.
- IP54 protection according to IEC 60529.

ELECTRICAL SPECIFICATIONS

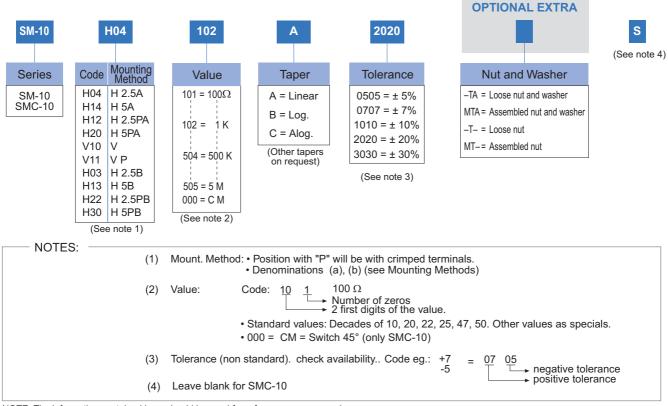
- Range of values* $100\Omega \leq Rn \leq 5 \text{ M} \text{ (Decad. 1.0 2.0 2.2 2.5 4.7 5.0)}$
- $\begin{array}{lll} \mbox{ Tolerance}^{\star} : & 100 \Omega \leq \mbox{Rn} \leq 1 \mbox{M} \ \Omega & \dots \dots \pm 20 \mbox{$\%$} \\ & 1 \mbox{M} \Omega & < \mbox{Rn} \leq 5 \mbox{M} \ \Omega & \dots \dots \pm 30 \mbox{$\%$} \end{array}$
- Max. Voltage: 200 VDC (lin) 100 VDC (no lin)
- Nominal Power :
 - Carbon SM-10 (50°C-122°F): 0.15W (lin), 0.07W (no lin)
 - Cermet SMC-10 (70°C-158°F): 0.33W(lin), 0.17 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:
 - Carbon SM-10 : -25°C + 70°C** (-13°F + 158°F)
 - Cermet SMC-10 : -40°C + 90°C (-40°F + 194°F)



* Others check availability.

** Up to 85°C depending on application.

*** For Ohmic values \geq 1 K Ω . Lower values check availability.



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

HOW TO ORDER CUSTOM DRAWING

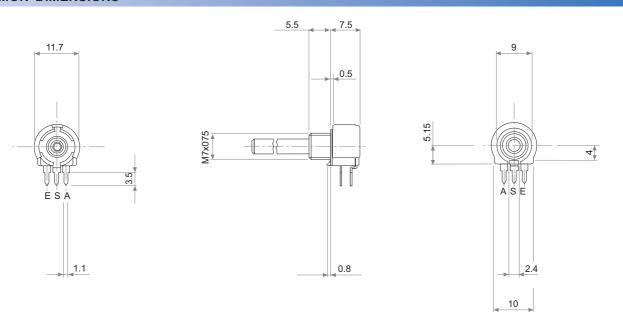
STANDARD OPTIONS

SM-10 H04 + DRAWING NUMBER (Max. 16 digits)

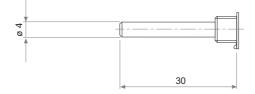
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

NUT AND WASHER = Without nut and washer

COMMON DIMENSIONS

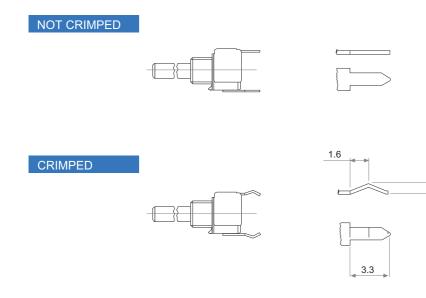


STANDARD SHAFT



Shaft: The standard option is E4 L30 black colour.

TERMINALS



PACKAGING

TESTS

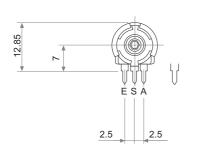
QUANTITY: 200 units

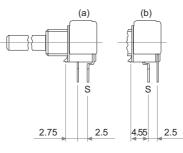
See PT-10 or PTC-10 data sheets.

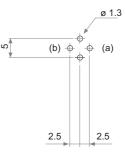
0.0

MOUNTING METHOD

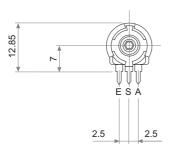
h 2.5

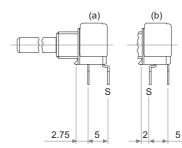




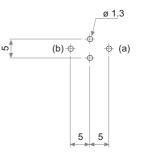


h 5



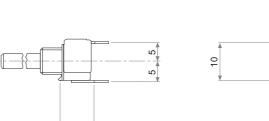


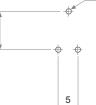
8.5



v 10

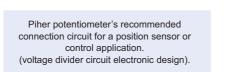


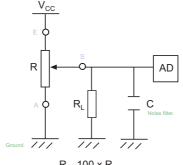




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RECOMMENDED CONNECTIONS







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