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







Ø1.3

RECOMMENDED CONNECTIONS







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