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:	> 80 Ncm. (113.6 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 (*) $100\Omega \leq Rn \leq 5 \ M \ (\text{Decad. } 1.0 \ \text{--} \ 2.0 \ \text{--} \ 2.2 \ \text{--} \ 2.5 \ \text{--} \ 4.7 \ \text{--} \ 5.0)$
- Tolerance (*): $100\Omega \le Rn \le 1M \ \Omega$ $\pm 20\%$ $1M\Omega$ < $Rn \le 5M \ \Omega$ $\pm 30\%$
- 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)

** Up to 85°C depending on application

*** For Ohmic values \geq 1 K Ω . Lower values upon request

HOW TO ORDER **OPTIONAL EXTRA** 102 2020 **SM-10** H04 S Δ (See note 4) Mounting Method Series Code Value Taper Tolerance Nut and Washer H04 H 2.5A $101 = 100 \Omega$ SM-10 A = Linear $2020 = \pm 20\%$ –TA = Loose nut and washer SMC-10 H14 H 5A MTA = Assembled nut and washer B = Log. 3030 = ± 30% H12 H 2.5PA 102 = 1 K -T- = Loose nut H20 H 5PA C = Alog. (See note 3) V10 V MT-= Assembled nut (Other tapers 504 = 500 K V11 VΡ on request) H03 H 2.5B H13 H 5B 505 = 5 MH22 H 2.5PB 000 = C MH30 H 5PB (See note 2) (See note 1) NOTES: Mount. Method: • Position with "P" will be with crimped terminals. (1) Denominations (a), (b) (see Mounting Methods) 100 Ω (2) Value: Code: <u>10</u> • Standard values: Decades of 10, 20, 22, 25, 47, 50. Other values as specials. • 000 = CM = Switch 45° (only SMC-10) = 07 05 \longrightarrow negative tolerance (3) Tolerance (non standard). Upon request. Code eg.: +7 -5 → positive tolerance Leave blank for SMC-10 (4)NOTE: The information contained here should be used for reference purposes only

MEGGITT

* Others upon request

HOW TO ORDER CUSTOM DRAWING

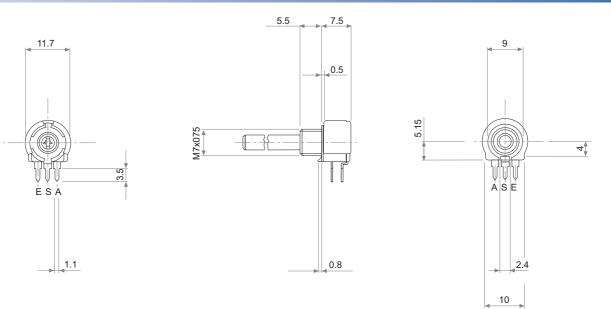
STANDARD OPTIONS

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

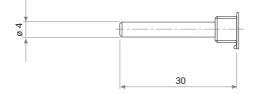
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

NUT AND WASHER = Without nut and washer

COMMON DIMENSIONS

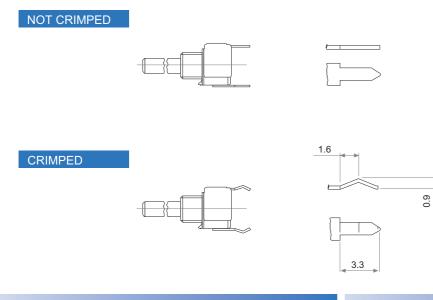


STANDARD SHAFT



Shaft: The standard option is E4 L30 black colour.

TERMINALS

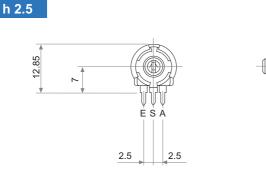


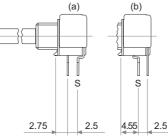
PACKAGING

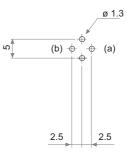
TESTS

QUANTITY: 200 units

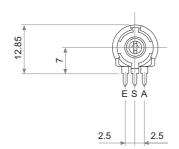
See PT-10 or PTC-10 data sheets.

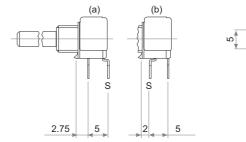


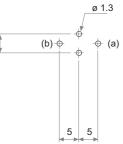




h 5

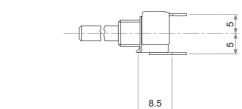


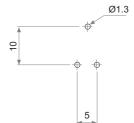




v 10







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