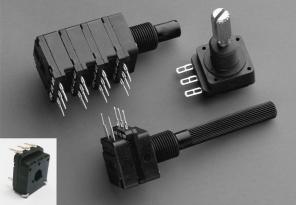
PIHFR



* Others check availability.

MECHANICAL SPECIFICATIONS

 Mechanical rotation angle: 	300° ± 5°		
- Electrical rotation angle:	280° ± 20°		
– Torque:	0.5 to 1.5 Ncm. (0.7 to 2.1 in-oz)		
– Stop torque:	> 40 Ncm. (>56 in-oz)		
- Max. torque nut (binding out):	< 80 Ncm. (112 in-oz)		
– Thrust and pull in the shaft:	> 25 N		

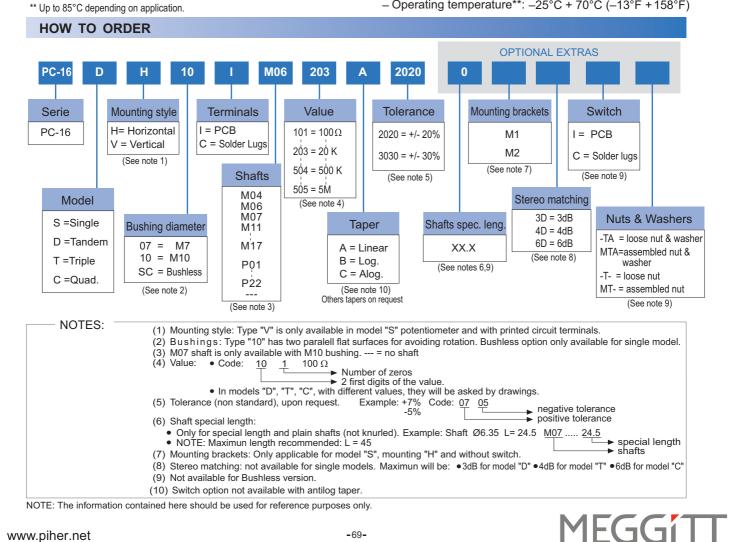
PC-16 16 mm Carbon Potentiometer

FEATURES

- Carbon resistive element.
- IP54 protection according to IEC 60529.
- Polyester substrate.
- Modular gang type (up to 4).
- Self extinguishable material UL 94-V0.
- Upon request:
 - · Metalic support.
 - Stereo matching.
 - Switch
 - Nut & washer.
 - Bushless model.

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*: $100\Omega \leq Rn \leq 1M \Omega \dots \pm 20\%$ $1M\Omega < Rn \le 5M \Omega = \pm 30\%$
- Max. Voltage: 250 VDC (lin) 125 VDC (no lin)
- Nominal Power 50°C (122°F) (see power rating curve) 0.2 W (lin) 0.1 W (no lin)
- Taper* (Log. & Alog. only $Rn \ge 1K$) 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 CUSTOM DRAWING

PC-16 S V + 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.

MODELS



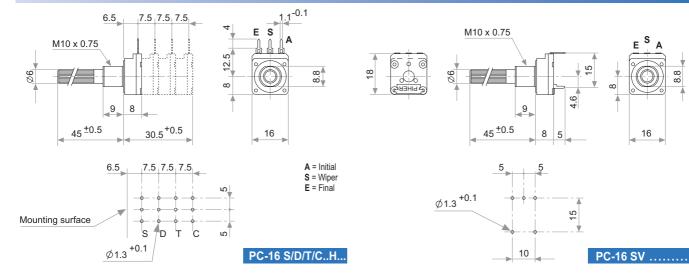
Shaft length	0 Standard Length
Mounting brackets	Without mounting brackets
Stereo matching	Only on request (see note 8)
Switch	No switch
Nut & washer	Without nut and washer

s

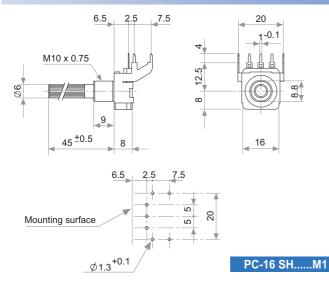
16

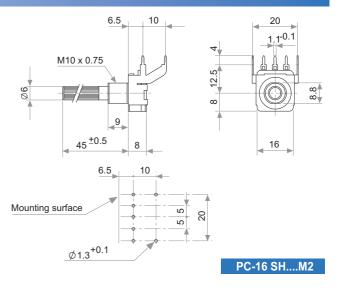
8.8

Е Α

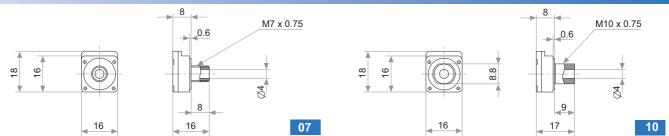


METALLIC SUPPORT

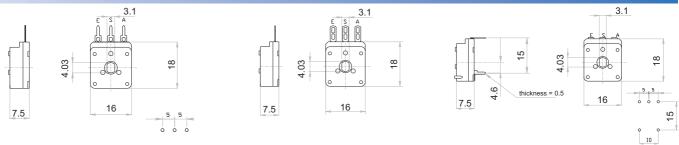




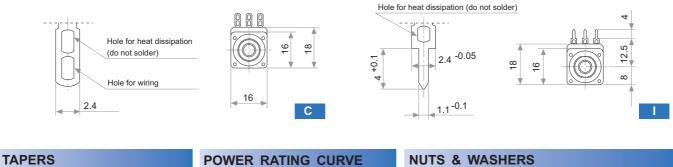
BUSHINGS



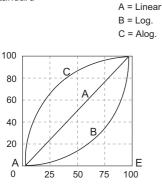
EXAMPLES OF BUSHLESS VERSION

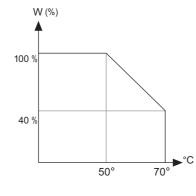


TERMINALS

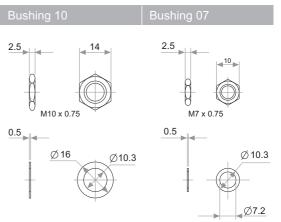








NUTS & WASHERS

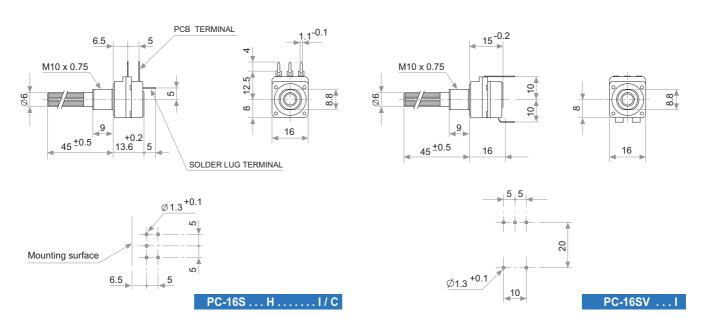


NOTE = Please note relative terminal positions when ordering non linear tapers.

TESTS		TYPICAL VARIATIONS
ELECTRICAL LIFE	1.000 h. @ 50°C; 0.2 W	±5 %
MECHANICAL LIFE : POT.* SWITCH	25.000 (10-15 CPM) 10.000 (1 A, 50 VAC)	±3 % (Rn < 1 MΩ)
TEMPERATURE COEFFICIENT	–25°C; +70°C	±300 ppm/°C (Rn <100 KΩ)
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 %

(*) only applicable to values ≥1K. For lower values please consult.

SWITCH



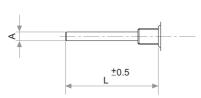
SWITCH SPECIFICATIONS		
NOMINAL CURRENT	1A, 250 VAC	
CONTACT RESISTANCE (initial)	10 m Ω	
OPERATING TORQUE	1 to 3 Ncm (1.4 to 4.2 in oz)	
OPERATING ANGLE	30° ± 5°	
TEST VOLTAGE	500 V	

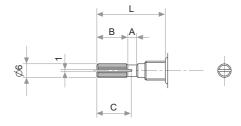
PACKAGING

Boxes of 100 pieces (single body model): Inner dimensions 250 x 160 x 95 mm

METALIC SHAFTS



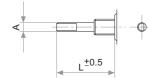


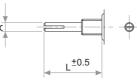


Α	L	CODE
4	45	M04
6	45	M06
6.35	45	M07

Α	в	С	L	CODE
2	5	7	15	M11
2	10	11	20	M12
4	12	14	25	M13
4	12	14	30	M14
4	12	14	35	M15
4	12	14	40	M16
4	12	14	45	M17

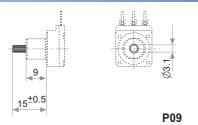
SPECIAL



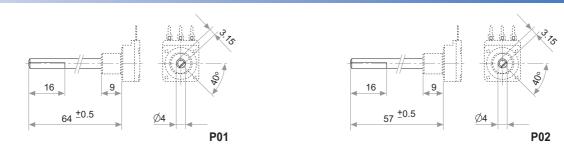




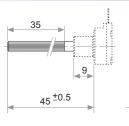
PLASTIC SHAFTS Ø3.1

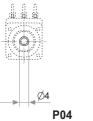


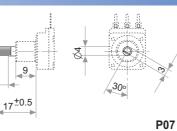
PLASTIC SHAFTS Ø4

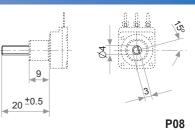


PLASTIC SHAFTS Ø4





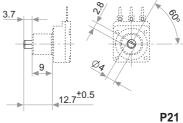




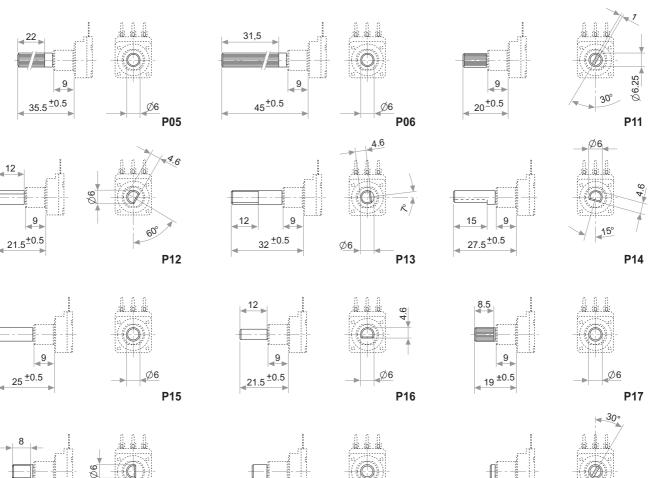
lo, Ē 9 Ø4 17^{±0.5}

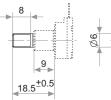


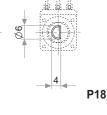
5



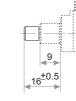
PLASTIC SHAFTS Ø6

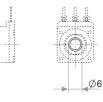


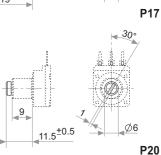


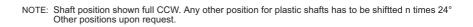


P22



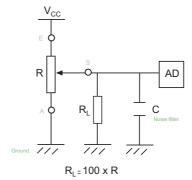






P19

10 15.5 9 25 ^{±0.5} Ø6 Piher potentiometer's recommended connection circuit for a position sensor or control application. (voltage divider circuit electronic design).



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