

SINGLE-TURN ROTARY POTENTIOMETERS TYPE PR 16...

Charakterystyka:

The PR 16... single-turn, housed in a metal case, rotary carbon control potentiometers. It comprises a carbon resistive track fitted on a resin modified paper base. Base diameter of potentiometers is 16 mm. Resistance track can be linear-A, logarithmic-B, inverse logarithmic-C or type of M+N. Potentiometers are made single or tandem, either with or without tap, plastic or metallic spindle. Terminals are designed for a PCB or soldering pins.

Potentiometers can be fit out on device hold up spindle in precise location 1, 11, or 41 position.

Application:

Potentiometers are widely used in electronic audio-video, electric domestic equipment and outer control elements.

Quick reference data:

Table 1

Parameter	Value
Nominal Resistance R_N	According E3 series (1 - 2,2 - 4,7 - 10 etc.)
Resistance range: A (linear law) (Ω) B (logarithmic law) (Ω) C (revers logarithmic law) (Ω) M + N law (Ω)	100 ÷ 2,2M 1k ÷ 1M 1k ÷ 1M 1k ÷ 10k
Tolerance of resistance (%)	$\pm 5\%$ for $R_N \leq 470k\Omega$ on request $\pm 10\%$ for $R_N > 470k\Omega$ on request $\pm 20\%$ for $R_N \leq 220k\Omega$ $\pm 30\%$ for $R_N > 220k\Omega$
Maximum dissipation at $T_{amb} = 40^\circ C$: A law (W) B law (W) C law (W) M + N law (W)	0.1 0.05 0.05 0.05
Maximum working voltage: A law (V) B law (V) C law (V) M+N law (V)	160 160 160 160

Synchronous characteristics: (only for tandem potentiometers G) A law – for range 10 – 90% effective way B law – for range 0 – 40 dB		$\leq 2\text{dB}$ $\leq 4\text{dB}$
Insulation voltage	(V _{DC})	240
Total mechanical angle of rotation	(°)	300±5
Maximum dissipation in category temperature		25% P _N
Climatic category		25/070/10

Resistance laws:

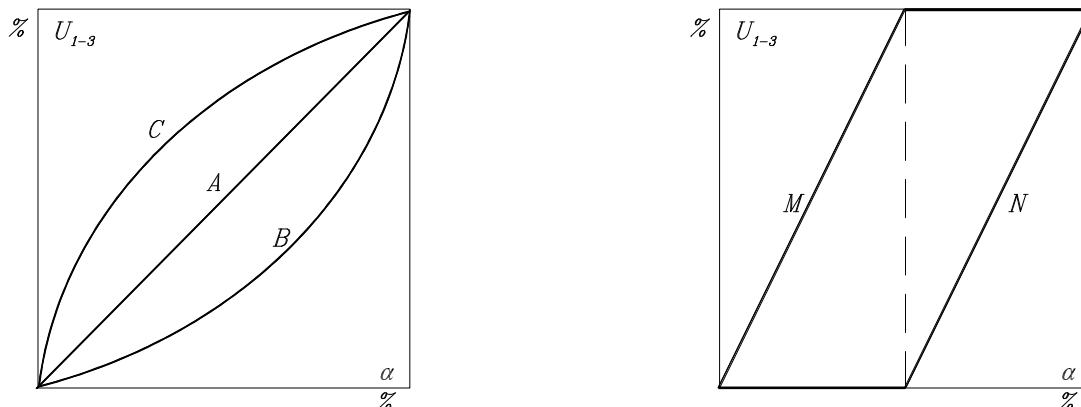
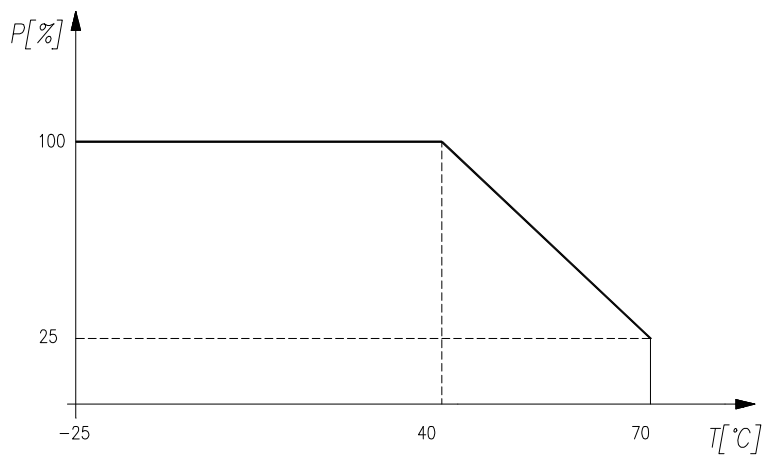


Fig. 1. Resistance laws: A - linear; B - logarithmic; C - reversed logarithmic; M+N.

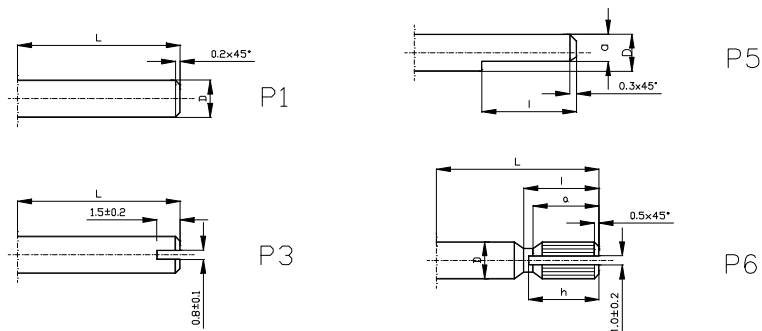
Derating curve of potentiometers



Derating curve: Potentiometers could dissipated from 100% of nominal power at ambient temperature $\leq +40^\circ\text{C}$ up to 25% nominal power at ambient temperature $+70^\circ\text{C}$.

Fig. 2. Derative curve of potentiometers versus ambient temperature.

Spindle ends type of potentiometers series PR 16...



Rys.3 Typy zakończeń wałków strowniczych

Fig.3 Spindle ends type of potentiometers

Table 3

Indicating Of spindle ends	Dimensions (mm)						
	Diameter D	L/l/a/h					
P-1	4	8/-/-/-	12/-/-/-	16/-/-/-	20/-/-/-	25/-/-/-	32/-/-/-
	6						
P-3	4	8/-/-/-	12/-/-/-	16/-/-/-	20/-/-/-	25/-/-/-	32/-/-/-
	6						
P-5	4	-	-	16/6/3,2/-	20/10/3,2/-	25/12/3,2/-	32/12/3,2/-
	6	16/8/4,5/-	20/8/4,5/-	16/6/4,5/-	20/10/4,5/-	25/12/4,5/-	32/12/4,5/-
P-6	6	-	-	16/-/6/7	20/-/10/11	25/-/12/13	32/-/12/13

Outline view – dimensions of potentiometers:

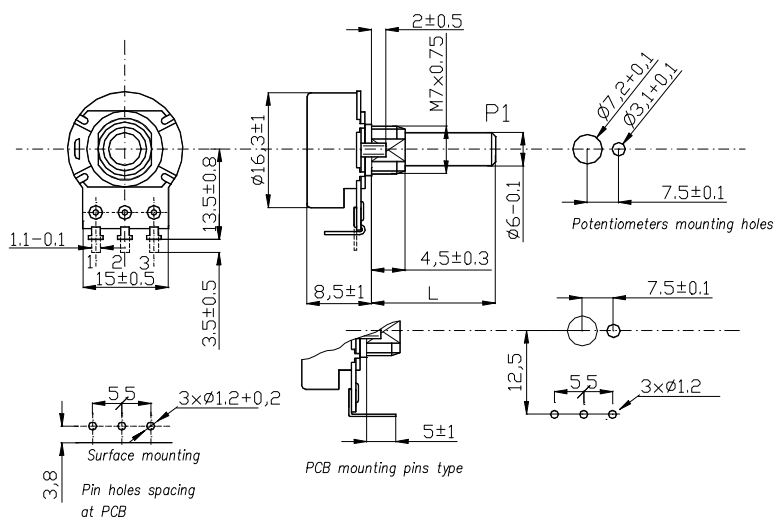


Fig. 4 Potentiometers PR 16..P1, PRP 16..P1 and PRPC 16..P1

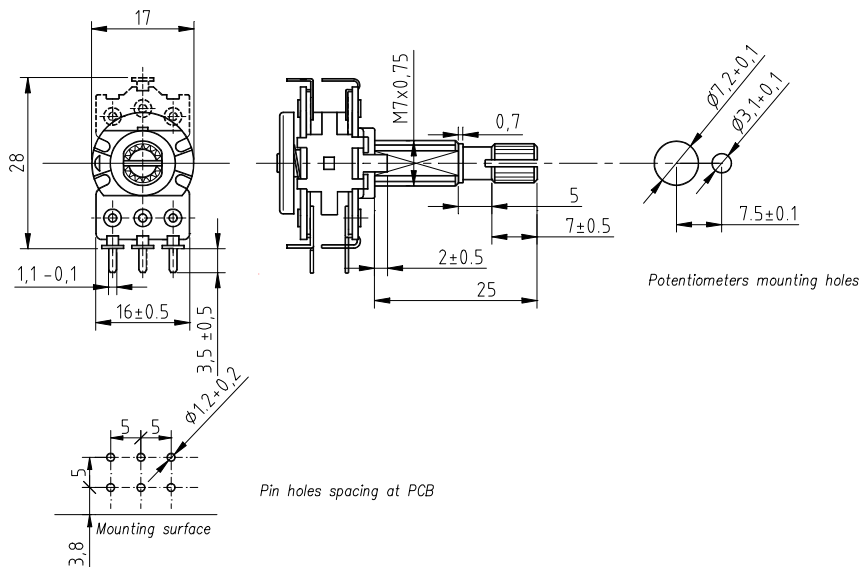


Fig. 5 Potentiometers PR 16..G and PRP 16..G P6

Marking

Marking on metal case: producer "TELPOD"; rated resistance; month and year of production.

Ordering example:

Please order by an example: We need potentiometer 16 mm; with tap; double 47kΩ; linear A low; diameter of spindle 6 mm, long of spindle 25 mm; end type of spindle P-6; for mounting on printed circuit board (PCB):

Potentiometer PRPT 162G 47kΩ A 25 P6

Packing:

The potentiometers can be supplied in bulk packing in a plastic bags and a carton box.

Detailed information:

- engineering:	Technical Division	phone: +48 (0)12 257 10 12
- trade:	Sale Division	phone +48 (0)12 257 10 35
		fax: +48 (0)12 257 10 13

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