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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.
Potenctiometers 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)	100 ÷ 2,2M
B (logarythmic law)	(Ω)	1k ÷ 1M
C (rewers logarythmic law)	(Ω)	1k ÷ 1M
M + N law	(Ω)	1k ÷ 10k
Tolerance of resistance	(%)	±5% for $R_N \leq 470k\Omega$ on request ±10% for $R_N > 470k\Omega$ on request ±20% for $R_N \leq 220k\Omega$ ±30 % for $R_N > 220k\Omega$
Maximum dissipation at T_{amb}= 40°C:		
A law	(W)	0.1
B law	(W)	0.05
C law	(W)	0.05
M + N law	(W)	0.05
Maximum working voltage:		
A law	(V)	160
B law	(V)	160
C law	(V)	160
M+N law	(V)	160

Synchronous characteristics: (only for tandem potentiometers G) A law – for range 10 – 90% efective way B law – for range 0 – 40 dB	 ≤ 2dB ≤4dB
Insulation voltage (V_{DC})	240
Total mechanical angle of rotation (°)	300±5
Maxi,um dissipation in category temperature	25% P_N
Climatic category	25/070/10

Resistance laws:

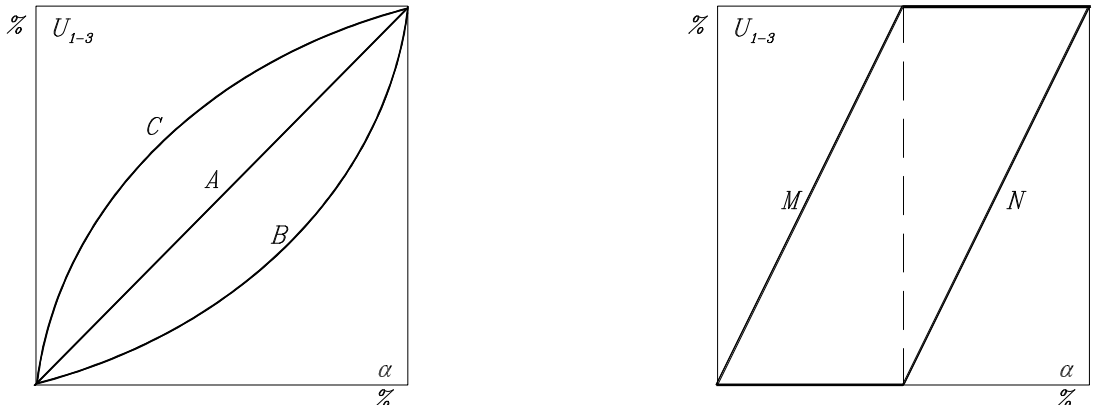
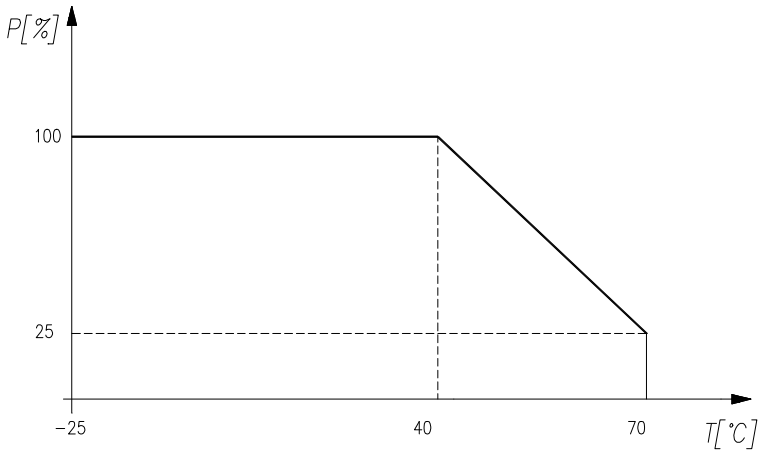


Fig. 1. Resistance laws: A - linear; B - logarithmic; C - reversed logarithmic; M+N.

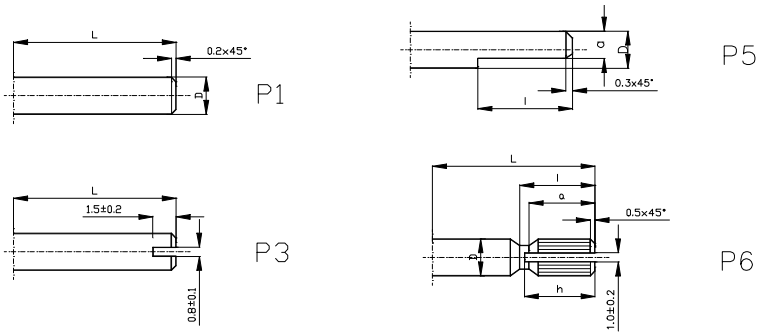
Derating curve of potentiometers



Derating curve: Potenctiometers could dissipated from 100% of nominal power at ambient temperature ≤ +40°C up to 25% nominal power at ambient temperature +70°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:

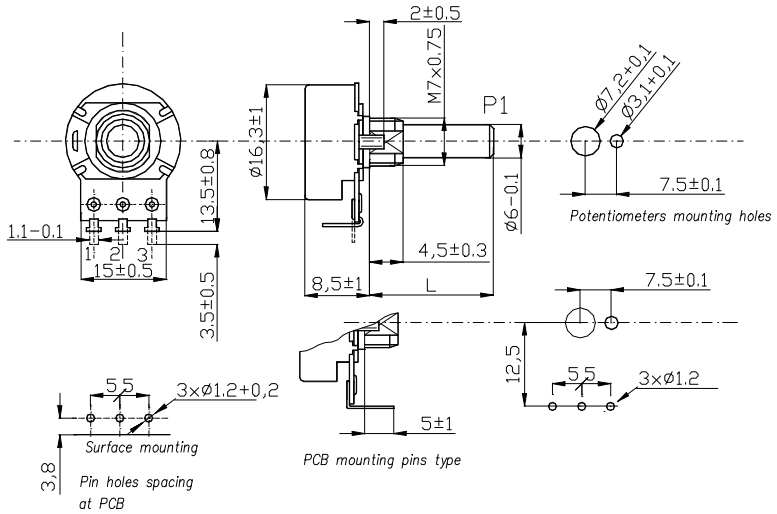


Fig. 4 Potentiometers PR 16..P1, PRP 16..P1 and PRPC 16..P1

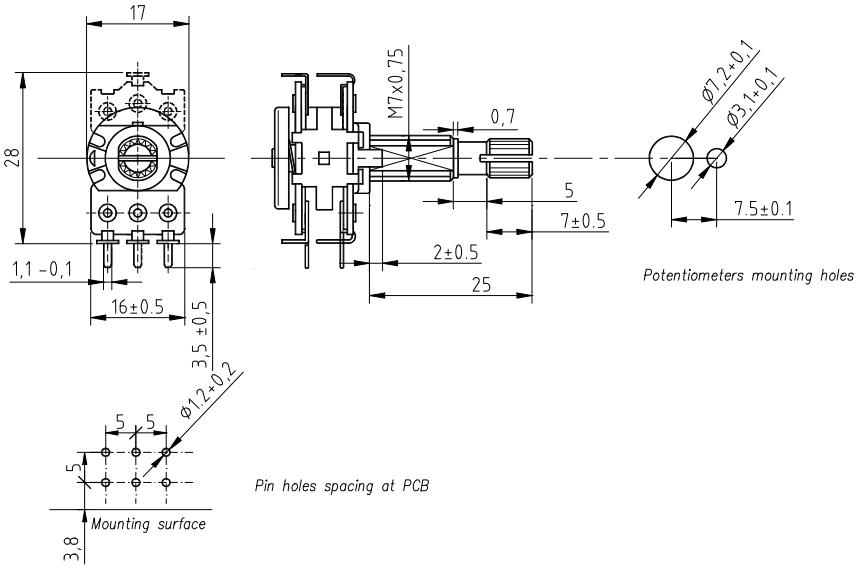


Fig. 5 Potentiometers PR 16..G and PRP 16..G P6

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 47kW; 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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