



Features

- Remote controllable
- Suitable for both motorized and manual operation
- Dual section
- Smooth manual operating feel
- Various taper options
- RoHS compliant*

Applications

- Guitar amplifiers
- Mixing consoles
- Amplifiers, CD players, karaoke volume controls
- Servo tracks

PRM16 Series - 16 mm Motorized Potentiometer

Electrical Characteristics

Taper.....	Linear, audio
Standard Resistance Range.....	1K ohms to 1 megohm
Standard Resistance Tolerance.....	±20 %
Power Rating	
B3 Taper.....	0.1 watt
Other Tapers.....	0.05 watt
Maximum Operating Voltage.....	150 Vac
Attenuation	
R ≥ 100K ohms.....	100 dB min.
100K ohms > R ≥ 50K ohms.....	90 dB min.
50K ohms > R ≥ 10K ohms.....	80 dB min.
10K ohms > R ≥ 5K ohms.....	70 dB min.
5K ohms > R ≥ 1K ohms.....	60 dB min.
1K ohms > R ≥ 500 ohms.....	50 dB min.
Voltage Proof.....	500 VDC for 1 minute
Motor Voltage.....	4.5 VDC
Motor Current (@ 4.5 VDC).....	100 mA max.

Environmental Characteristics

Operating Temperature Range.....	-10 °C to +70 °C
Sliding Noise.....	47 mV max.

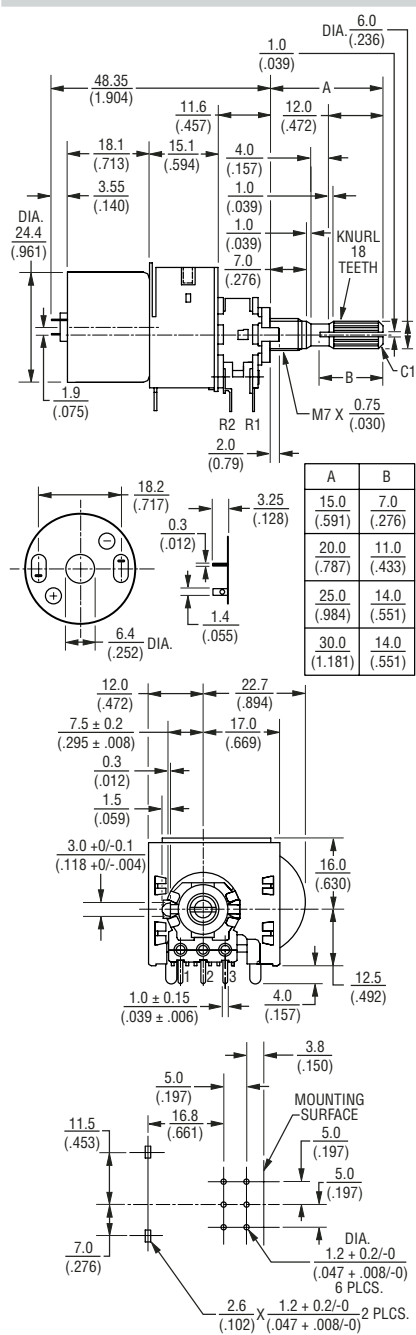
Mechanical Characteristics

Mechanical Angle.....	300° ± 5°
Rotational Speed.....	12 ± 3 seconds
Rotational Torque.....	150 to 450 g-cm
Stop Strength.....	9 kg-cm max.
Push-pull Strength.....	10 kg max. for 10 seconds
Rotational Life.....	15,000 cycles
Soldering Condition.....	260 °C within 5 seconds or 300 °C within 3 seconds
Hardware.....	One flat washer and mounting nut supplied per potentiometer with bushing

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Product Dimensions



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Europe:
Tel: +41-41 768 5555 • Fax: +41-41 768 5510
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www.bourns.com

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

TOLERANCES UNLESS OTHERWISE NOTED:

$\leq \frac{10.0}{(0.394)} = \pm 0.3$	$> \frac{10.0}{(0.394)} = \pm 0.5$
(± 0.012)	(± 0.020)

PRM16 Series - 16 mm Motorized Potentiometer

BOURNS®

How To Order

P R M 1 6 2 - K 4 1 5 K - 1 0 3 B 3

MODEL DESIGNATOR

Code	Description
PRM16	16 mm Motorized Potentiometer

NUMBER OF SECTIONS

Code	Description
2	Dual Section

TERMINAL CONFIG. (PIN LAYOUT)

Code	Description
K	PC Pins Vertical/Down Facing

DETENT OPTION

Code	Description
4	No Detents

STANDARD SHAFT LENGTH

Code	Description
15	15 mm
20	20 mm
25	25 mm
30	30 mm

RESISTANCE TAPER (SEE TAPER CHARTS)

Taper Series followed
by Curve Number

RESISTANCE CODE

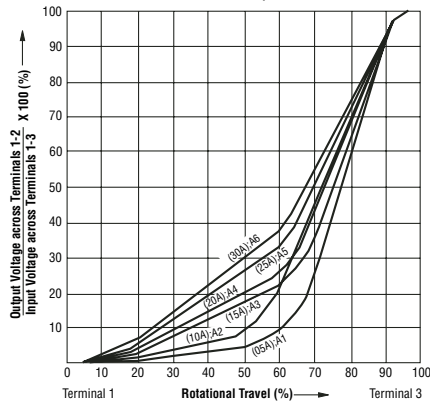
Code	Value in Ohms
102	1,000
202	2,000
502	5,000
103	10,000
203	20,000
503	50,000
104	100,000
204	200,000
504	500,000
105	1,000,000

SHAFT STYLE

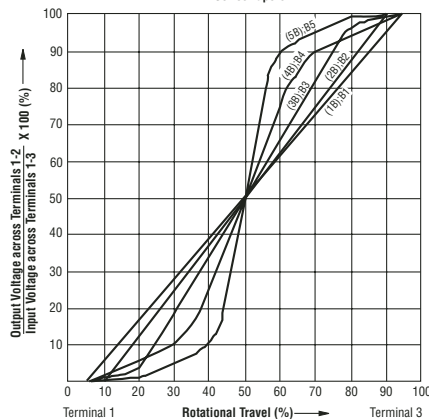
Code	Description
K	Knurled (18 Tooth Serrated)

Tapers

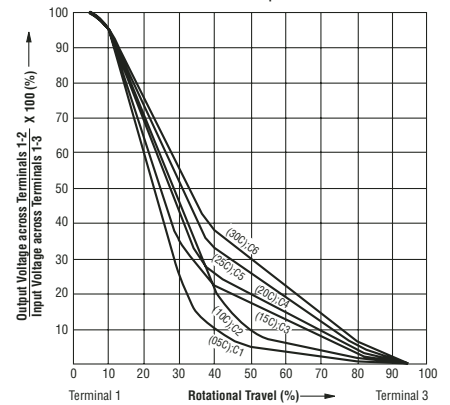
A Series Tapers



B Series Tapers



C Series Tapers



REV. 10/08

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