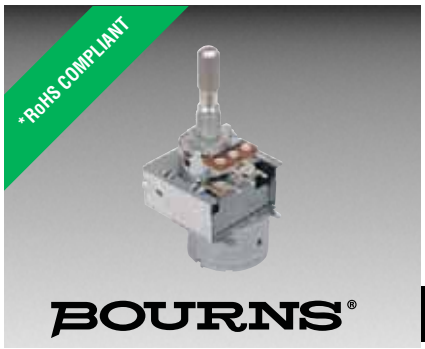


Features

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

BOURNS® PRO AUDIO

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

BOURNS®

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www.bourns.com

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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Applications

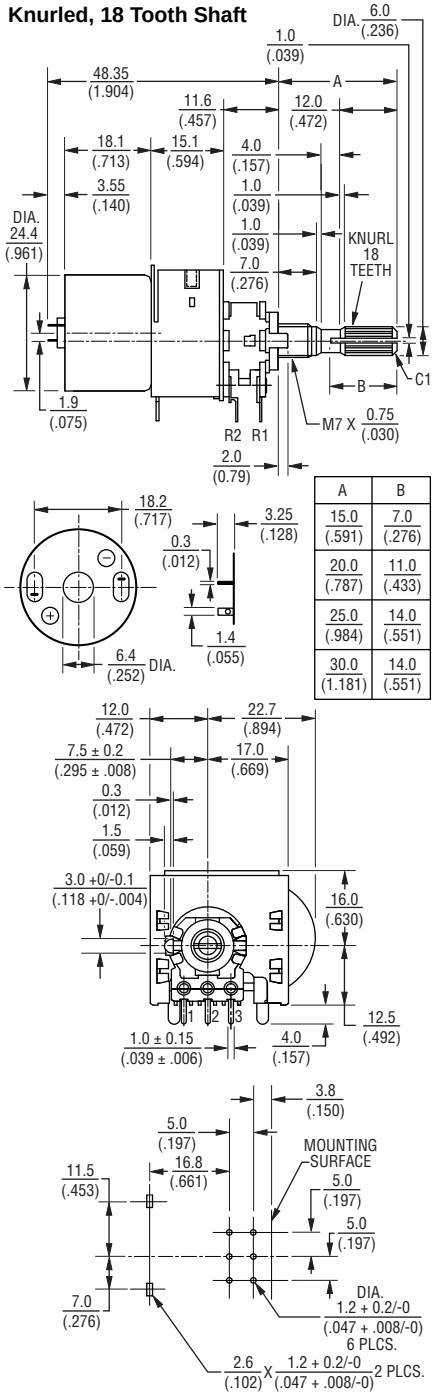
- Guitar amplifiers
- Mixing consoles
- Amplifiers, CD players, karaoke volume controls
- Servo tracks

PRM16 Series - 16 mm Motorized Potentiometer

BOURNS®

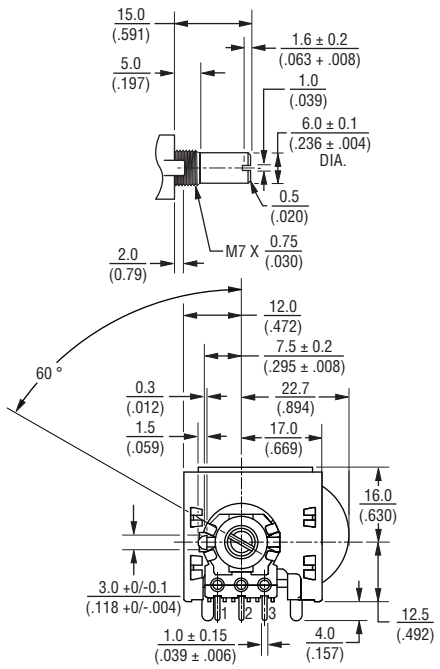
Product Dimensions

Knurled, 18 Tooth Shaft



A	B
15.0 (.591)	7.0 (.276)
20.0 (.787)	11.0 (.433)
25.0 (.984)	14.0 (.551)
30.0 (1.181)	14.0 (.551)

Slotted Shaft



DIMENSIONS: MM (IN)

TOLERANCES UNLESS OTHERWISE NOTED:

≤ 10.0 (.394) = ±0.3 (±.012) > 10.0 (.394) = ±0.5 (±.020)

Shaft Length	Shaft Wobble
15.0 (.591)	0.23 (.009)
20 (.787)	0.35 (.014)
25 (.984)	0.47 (.019)
30 (1.181)	0.58 (.023)

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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

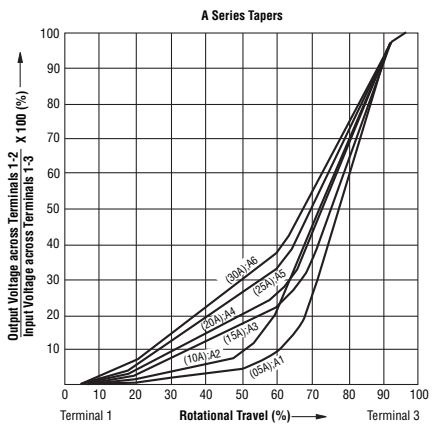
STANDARD SHAFT LENGTH	
Code	**Description**
15	15 mm
20	20 mm
25	25 mm
30	30 mm

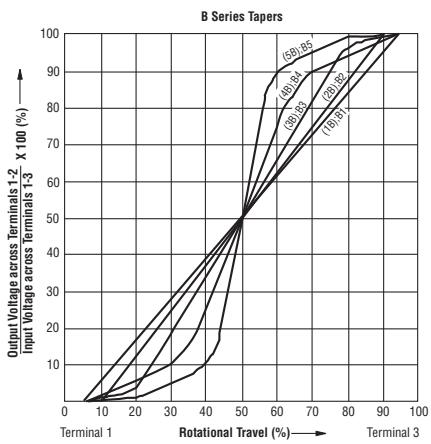
SHAFT STYLE	
Code	**Description**
K	Knurled (18 Tooth Serrated)
S	Slotted

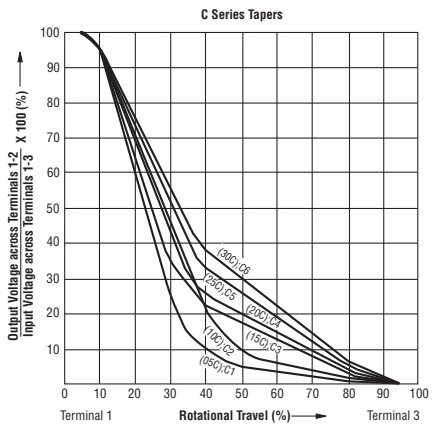
RESISTANCE CODE	
Code	**Value in Ohms**
102	1,000
202	2,000
502	5,000
103	10,000
203	20,000
503	50,000
104	100,000
204	200,000
504	500,000
105	1,000,000

RESISTANCE TAPER (SEE TAPER CHARTS)
Taper Series followed by Curve Number

Tapers







REV. 10/19

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