



Features

- Carbon element
- Assortment of resistance tapers
- Variety of shaft lengths
- Flatted, knurled and slotted shaft styles
- Center detent option

Applications

- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Automotive sound systems
- Portable electronics
- Portable appliances

PTM90 Series Panel Control w/Push-Push Switch

Electrical Characteristics

Standard Resistance Range	1K ohms to 1 megohm
Standard Resistance Tolerance	R < 250K ohms.....±20 %
	R ≥ 250K ohms.....±30 %
End Resistance	R < 50K ohms30 ohms max.
	R ≥ 50K ohms0.1 % of TR max.
Insulation Resistance @ 250 VDC	100 megohms min.
Dielectric Withstanding Voltage	300 VAC
Tracking Error (-40 dB to 0 dB)	±3 dB
Standard Taper	Linear, Audio
Power Rating	
Linear	0.05 watt
Audio	0.025 watt
Slider Noise	100 mV max.
Operating Voltage	50 VAC / 10 VDC

Environmental Characteristics

Operational Life	15,000 cycles
TR Shift	±15 %
Operating Temperature Range	-10 °C to +55 °C
Resistance to Solder Heat	±5 %
IP Rating	IP 40

Mechanical Characteristics

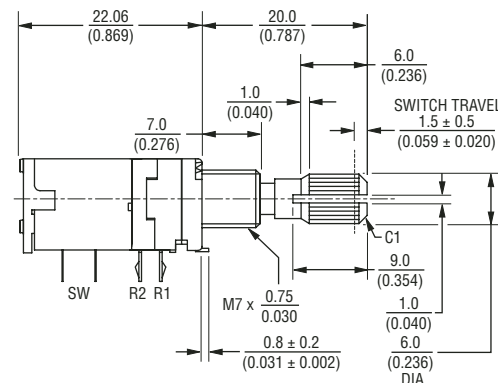
Mechanical Angle	300° ± 3°
Operating Torque	20~250 gf-cm
Stop Strength	5 kgf-cm min.
Mounting Torque	10 kgf-cm max.
Shaft Push/Pull Strength	10 kgf max.
Soldering Condition	
Manual	300 °C ± 5 °C for 3 sec.
Wave	260 °C ± 5 °C for 5 sec.
Wash	Not recommended

Switch Characteristics

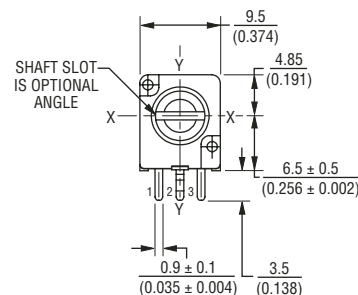
Power Rating	3 A @ 16 VDC
Contact Resistance	100 milliohms
Dielectric Strength	
Bushing to Terminals	300 VAC
Switch Terminals	50 VAC
Insulation Resistance	
Bushing to Terminals @ 250 VAC	100 megohms
Switch Terminals @ 50 VAC	10 megohms
Switch Type	Push on - Push off
Contact Arrangement	SPDT
Switch Stroke	1.5 ± 0.1 mm
Operating Force	2 kgf max.
Operating Life	10,000 cycles

Product Dimensions

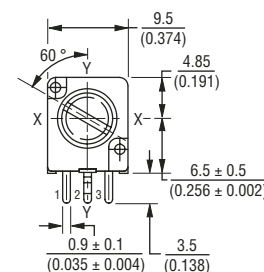
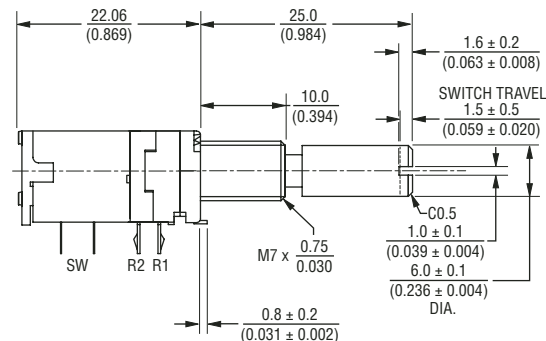
20 mm Length of Travel, Knurled Shaft



DIMENSIONS: MM (INCHES)

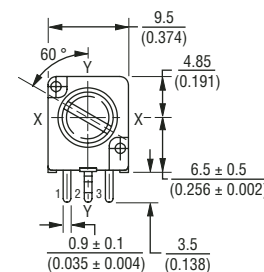
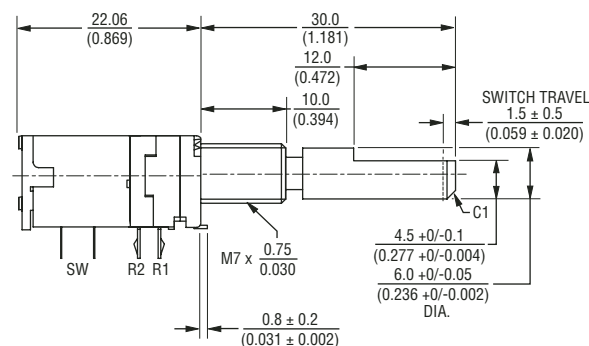


25 mm Length of Travel, Slotted Shaft



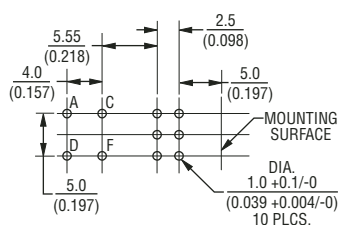
SHAFT SHOWN IN FULL CCW POSITION

30 mm Length of Travel, Flatted Shaft

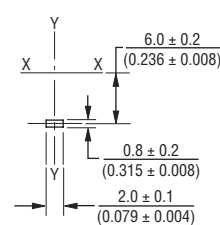


SHAFT SHOWN IN FULL CCW POSITION

Mounting Hole Detail



Locating Lug Detail



PTM90 Series Panel Control w/Push-Push Switch

BOURNS®

How To Order

PTM90 2 - 0 25 S - 103 B2

Model Number _____
 Designator _____
 PTM90 = Panel Control
 w/Push-Push Switch

Number of Sections _____
 2 = Dual Gang

Center Detent _____
 0 = No Detent
 1 = Center Detent

Shaft Length (FMS) _____
 20 = 20 mm (Knurled shaft only)
 25 = 25 mm (Slotted shaft only)
 30 = 30 mm (Flatted shaft only)

Shaft Style _____
 F = Flatted Metal
 K = Knurled (18 tooth serrated)
 S = Slotted Metal

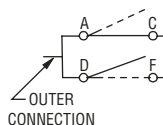
Resistance Code _____
 (See Standard Resistance Table)

Resistance Taper (See Taper Charts)
 Taper Series followed by Curve Number

Standard Resistance Table

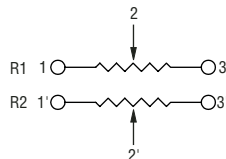
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Switch Circuit

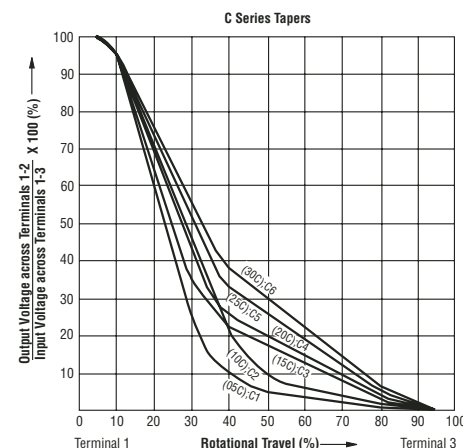
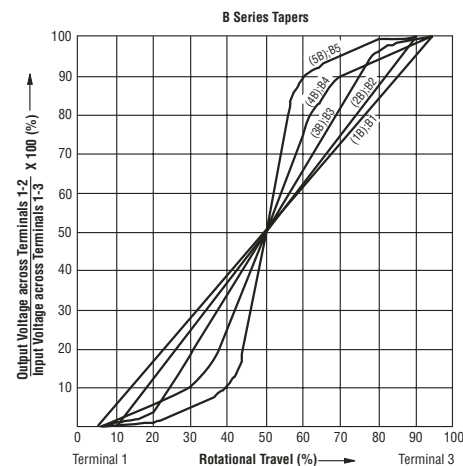
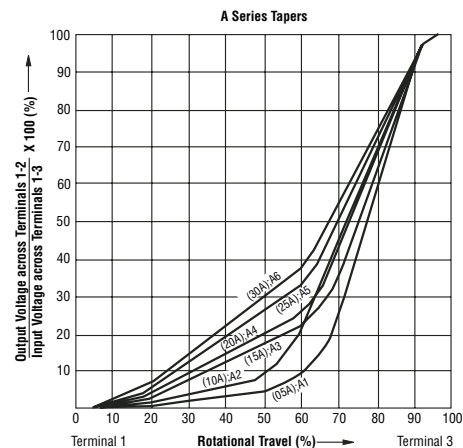


Schematic

Dual Gang



Tapers



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Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.