

PTH90 Series Dual Concentric Shaft Panel Control w/Rotary Switch

Standard Resistance Range	1K ohms to 1 megohm
Standard Resistance Tolerance	
R < 250K ohms	±20 %
R ≥ 250K ohms	±30 %
End Resistance	
R < 50K ohms	30 ohms max.
R ≥ 50K ohms	0.1 % of TR max.
Insulation Resistance @ 250 VDC	
	100 megohms min.
Dielectric Withstanding Voltage	300 VAC
Standard Taper	Linear, Audio
Power Rating	
Linear	0.05 watt
Audio	0.05 watt
Slider Noise	100 mV max.
Operating Voltage	50 VAC / 10 VDC

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

Mechanical Angle 300 ° ±3 °
Operating Torque 20~250 gf·cm
Stop Strength..... 10 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

Hardware One flat washer and
one mounting nut supplied with
each potentiometer

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	Rotary
Contact Arrangement	SPST
Switching Angle	50 ° max.
Detent Torque	500 kgf-cm
Operating Life	10,000 cycles

(Shown with Flatted Shaft)

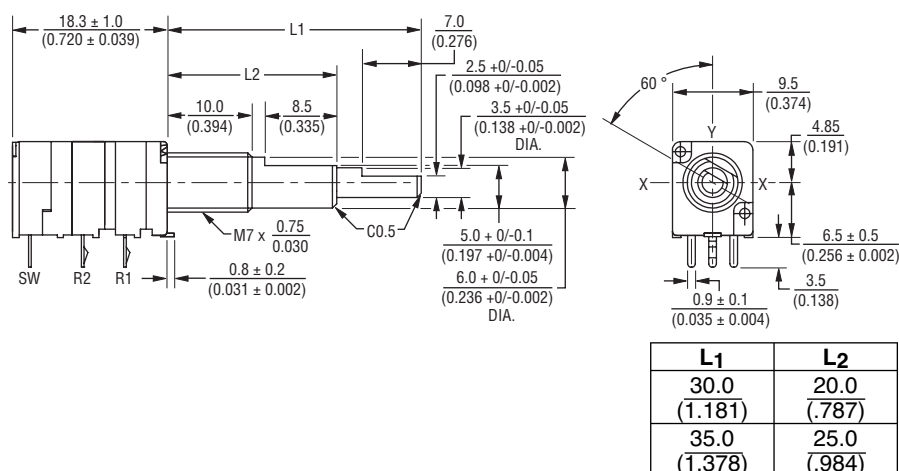
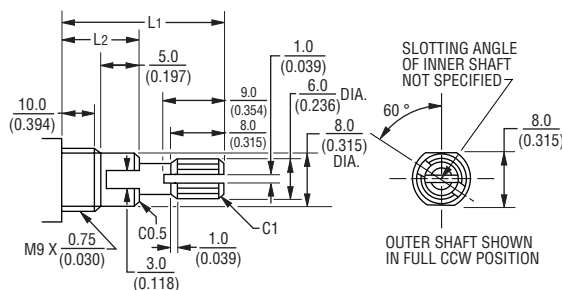


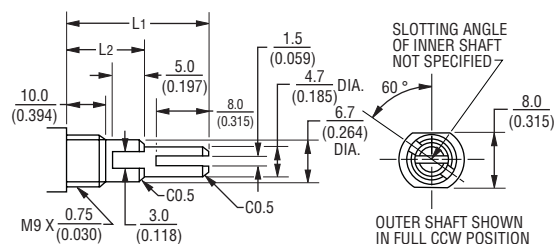
Figure 1: Dimensions of the test specimen. The diagram shows a rectangular specimen with three horizontal rows of circular holes. The total width is 6.5 (0.256). The distance from the left edge to the first hole is 5.0 (0.197). The distance between the first and second hole is 5.0 (0.197). The distance between the second and third hole is 5.0 (0.197). The distance from the third hole to the right edge is 5.0 (0.197). The total height is 5.0 (0.197). The diameter of the holes is 1.0 +0.1/-0 (0.039 +0.004/-0) PLCS. The mounting surface is indicated on the right side.

Figure 1: Schematic diagram of the test specimen. The diagram shows a cross-section of a specimen with dimensions and tolerances. The total width is 6.0 ± 0.2 (0.236 ± 0.008). The height of the central section is 0.8 ± 0.2 (0.315 ± 0.008). The height of the base section is 2.0 ± 0.1 (0.079 ± 0.004). The specimen is labeled with X and Y axes.

Knurled Shaft



Slotted Shaft



L1	L2
30.0 (1.181)	20.0 (.787)
35.0 (1.378)	25.0 (.984)

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

L1	L2
35.0 (1.378)	21.0 (.827)
40.0 (1.575)	26.0 (1.024)

*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.

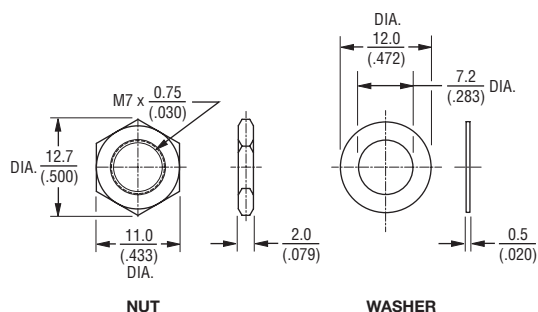
Applications

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

PTH90 Series Dual Concentric Shaft Panel Control w/Rotary Switch

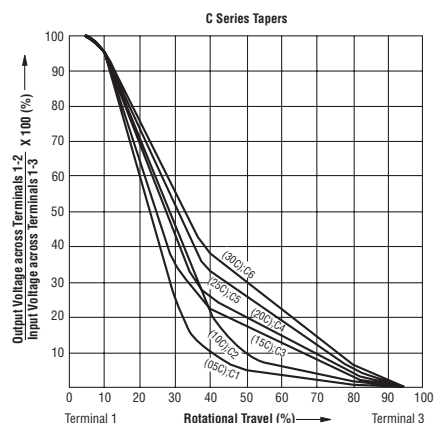
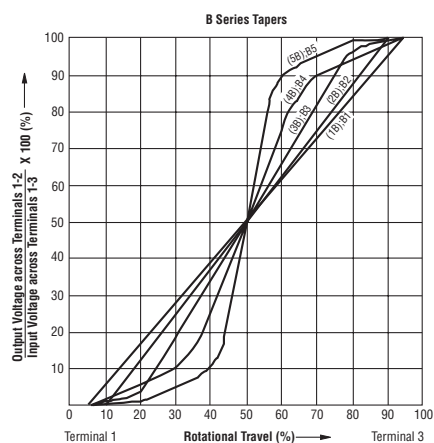
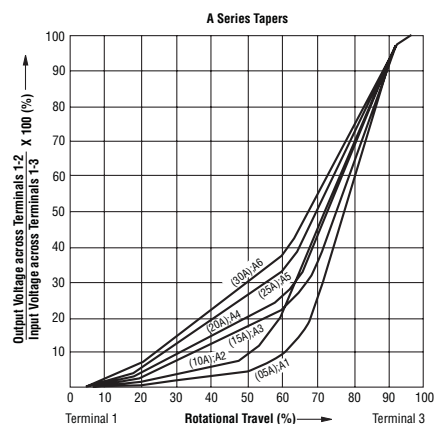
BOURNS®

Hardware



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Tapers



How To Order

PTH90 2 - 0 30 F - 103 B2

Model Number
Designator
PTH90 = Dual
Concentric Shaft Panel
Control w/Rotary Switch

Number of Sections
2 = Dual Gang

Center Detent
0 = No Detent
1 = Center Detent

Shaft Length (FMS)
*30 = 30 mm
35 = 35 mm
40 = 40 mm

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

Resistance Code
(See Standard Resistance Table)

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

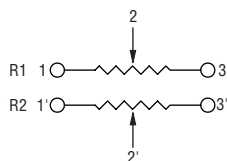
*Flatted and knurled shafts only.

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

Schematic

Dual Gang



Switch Circuit



REV. 10/11

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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9