Features

- Carbon element
- Assortment of resistance tapers
- Dual gang element
- Center detent option

BOURNS® PRO AUDIO

PTJ90 Series Dual Concentric Shaft 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 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 ..... 0.025 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

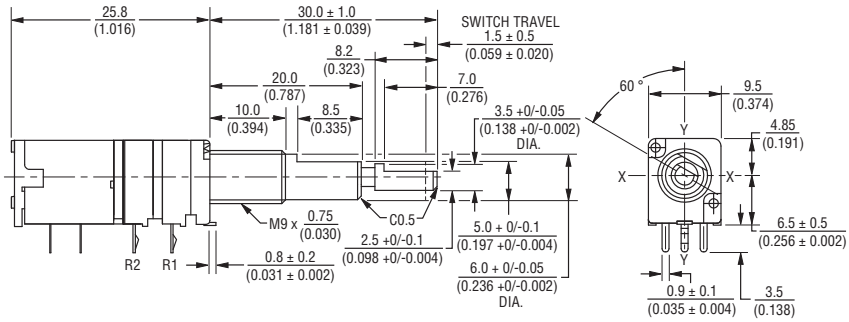
Mechanical Angle ..... 300 ° ±3 °
Operating Torque ..... 20~250 gf-cm
Stop Strength ..... 5 kgf-cm max.
Mounting Torque ..... 10 kgf-cm max.
Shaft Push/Pull Strength ..... 10 kgf max.
Soldering Condition
Manual ..... 300 °C ±5 °C for 3 sec.
Wave ..... 260 °C ±5 °C for 5 sec.
Wash ..... Not recommended
Hardware ..... One flat washer and one mounting nut supplied with each potentiometer

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

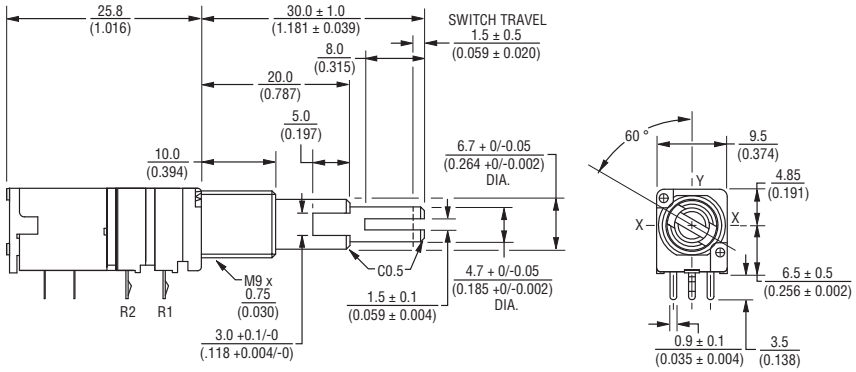
Product Dimensions

PTJ902-xxxF



INNER AND OUTER SHAFT SHOWN IN CCW POSITION

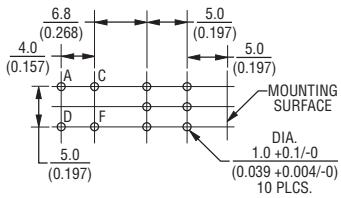
PTJ902-xxxS



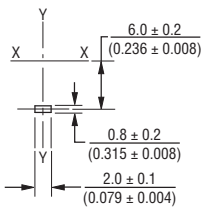
DIMENSIONS: MM / (INCHES)

INNER AND OUTER SHAFT SHOWN IN CCW POSITION

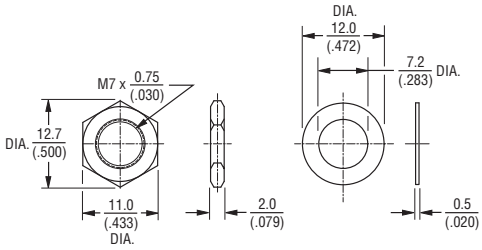
Mounting Hole Detail



Locating Lug Detail



Hardware



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Applications

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

PTJ90 Series Dual Concentric Shaft Panel Control w/Push-Push Switch

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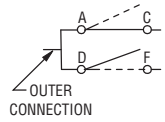
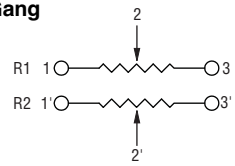
Switch Circuit



Schematic

Dual Gang



How To Order

PTJ90 2 - 0 30 F - 103 B2

Model Number Designator
PTJ90 = Dual Concentric Shaft Panel Control w/Push-Push Switch

Number of Sections
2 = Dual Gang

Center Detent
0 = No Detent
1 = Center Detent

Shaft Length (FMS)
30 = 30 mm

Shaft Style
F = Flatted Metal
S = Slotted Metal

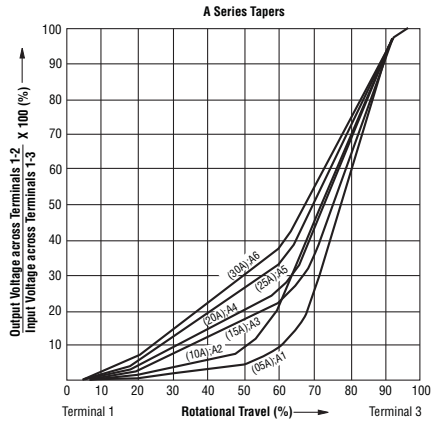
Resistance Code
(See Standard Resistance Table)

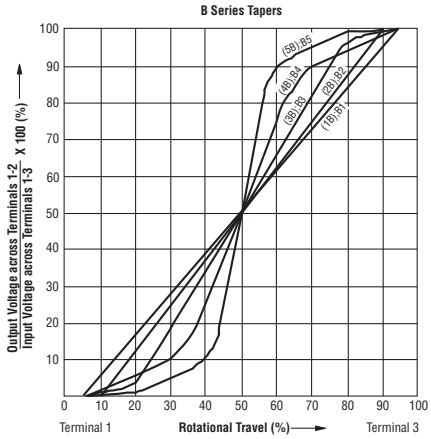
Resistance Taper (See Taper Charts)
Taper Series followed by Curve Number

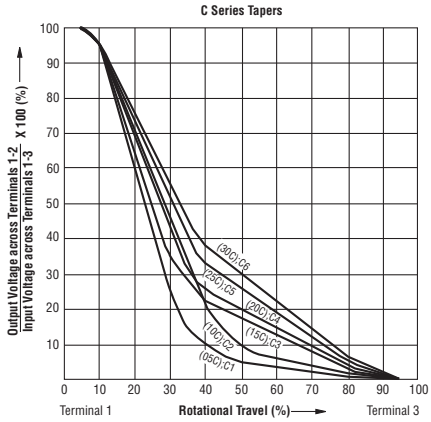
Standard Resistance Table

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

Tapers







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