

Features

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



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

Electrical Characteristics

| Standard Resistance Ra | nge |
|---------------------------|-------------------|
| 1K c | hms to 1 megohm |
| Standard Resistance Tol | erance |
| R < 250K ohms | |
| R ≥ 250K ohms | ±30 % |
| End Resistance | |
| R < 50K ohms | 30 ohms max. |
| R ≥ 50K ohms | .0.1 % of TR max. |
| Insulation Resistance @ | 250 VDC |
| 1 | 100 megohms min. |
| Dielectric Withstanding \ | /oltage300 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 F | Range |
| | 10 °C to +55 °C |
| Resistance to Solder Hea | at±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 | |
| Manual300 ° | |
| Wave260 ° | °C ±5 °C for 5 sec. |
| Washl | |
| HardwareO | |
| | g nut supplied with |
| e | ach potentiometer |

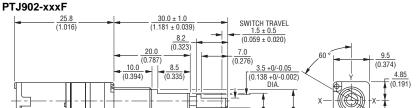
Switch Characteristics

| 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 @ 5 | 0 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 |
| | |

Power Rating......3 A @ 16 VDC

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

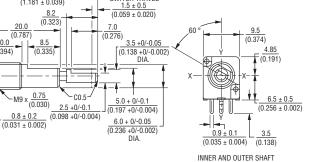
Product Dimensions



0.8 ± 0.2

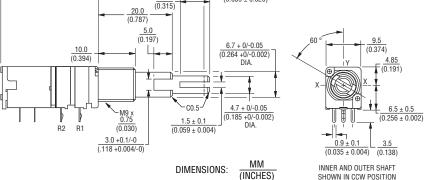
30.0 ± 1.0 (1.181 ± 0.039)

PTJ902-xxxS



 $\frac{9.5}{(0.374)}$

SHOWN IN CCW POSITION



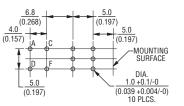
DIMENSIONS:

SWITCH TRAVEL

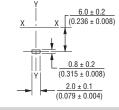
 $\frac{1.5 \pm 0.5}{(0.059 \pm 0.020)}$

(INCHES)

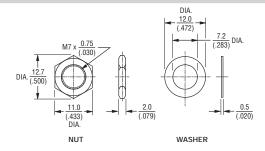
Locating Lug Detail



Mounting Hole Detail



Hardware



^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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Applications

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

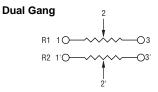
PTJ90 Series Dual Concentric Shaft Panel Control w/Push-Push Switch

BOURNS

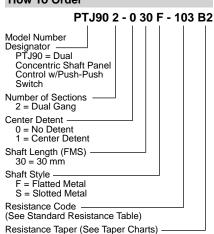
Switch Circuit



Schematic



How To Order

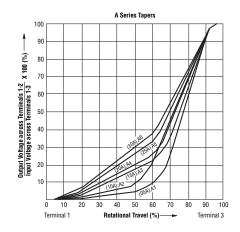


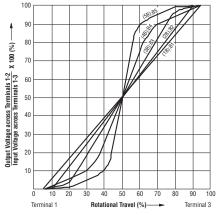
Taper Series followed by Curve Númber

Standard Resistance Table

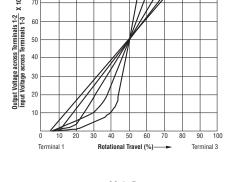
| Resistance (Ohms) | Resistance Code |
|----------------------|--------------------|
| 1,000 | 102 |
| 2,000 | 202 |
| 5,000 | 502 |
| 10,000 | 103 |
| 20,000 | 203 |
| 50,000 | 503 |
| 100,000 | 104 |
| 200,000 | 204 |
| 500,000 | 504 |
| 1,000,000 | 105 |

Tapers





B Series Tapers



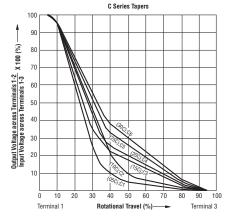
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REV. 10/19

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