

RoHS Compliant



Series 448

Commercial Linear Motion

Carbon Composition Slide Potentiometer

- 10-60mm slider travel
- Innovative AC power switch (SPST, SPDT)
- Center detent available
- Single or dual element designs
- Economical
- Wide resistance range
- Slim construction
- RoHS compliant





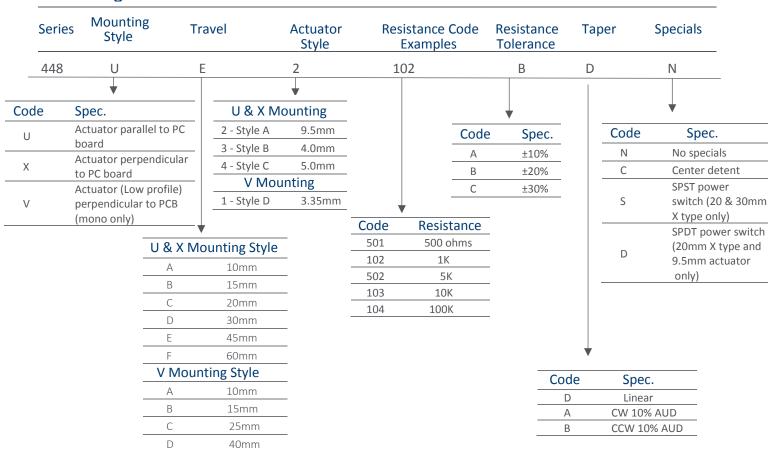
Description

The versatile 448 Series provides the designer with a thin construction and multiple mounting options. As a standard construction, the 448 series is available with the actuator parallel or perpendicular to PC board. Options include various actuator lengths, terminal styles, resistance values, and travel options to meet your design requirements.

Ordering Information

Ε

55mm



Electrical Specifications

Parameter	Conditions & Remarks		Min.		Max.	Unit
Resistance Range	Linear (Audio - consult CTS)		500		1 Meg	ohms
Resistance Tolerance	±30%, ±20%, ±10%					
Insulation Resistance	at 250 VDC		10 Meg			ohms
Maximum Operating Voltage	Taper	10mm	15mm 20mm	30mm	45mm	60mm
	Linear	100VDC	150VDC 200VDC	250VDC	300VDC	500VDC
	Non-linear	50VDC	50VDC 150VDC	200VDC	250VDC	300VDC
Power Rating, watts	Taper	10mm	15mm 20mm	30mm	45mm	60mm
	Linear	0.05w	0.1w	0.2w	0.25w	0.5w
	Non-linear	0.025w	0.05w	0.1w	0.15w	0.25w

Mechanical and Environmental

Power Switch (optional)	SPST 10,000 cycles carrying 1,000 watts 120 VAC (Tungsten-filament)				
	SPDT 10,000 cycles carrying 600 watts 120 VAC (Tungsten-filament)				
Slide Travel (without	X and U Style: 10, 15, 20, 30, 45, and 60mm				
switch)	V Style: 10, 15, 25, 40 and 55mm				
Slide Travel (with switch)	30mm= 27mm electrical+3mm switch (SPST only)				
	20mm= 17mm electrical+3mm switch				
Power Switch (optional)	SPST 10,000 cycles carrying 1,000 watts 120 VAC (Tungsten-filament)				
	SPDT 10,000 cycles carrying 600 watts 120 VAC (Tungsten-filament)				
Operating Force	Potentiometer: 20-150g				
	Switch: 100-500g				
Stop Strength	3 Kgf maximum, measured at base of slider				
Operating Life	Standard: 10,000 cycles				
	Special:100,000, 250,000 cycles				
Reflow Soldering	Maximum temperature of 260°C for 5 seconds				
RoHS	Lead-Free. Fully compliant to RoHS Directive				
Packaging:	Standard sample box packaging				
Operating Temperature Range	-40 °C to +85 °C				

Mechanical Specifications

Figure 1 – 448V Mono

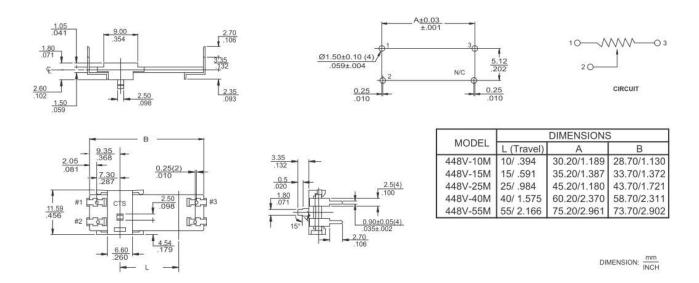


Figure 2 - 448U Mono

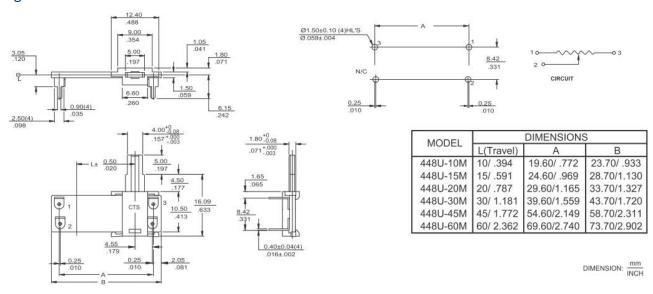


Figure 3 – 448U Dual

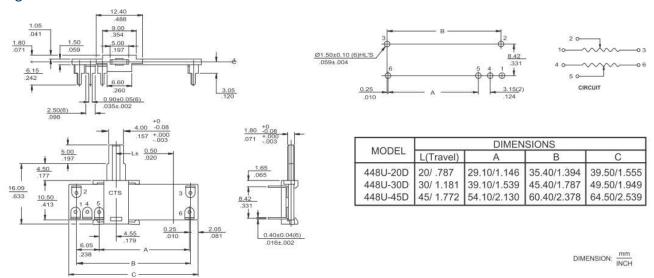


Figure 4 – 448X Mono

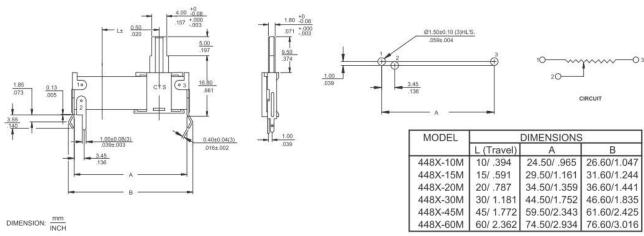


Figure 5 – 448X Dual

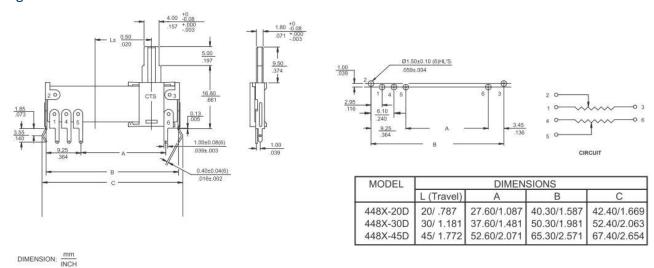


Figure 6 – 448X Mono W/SPST Switch

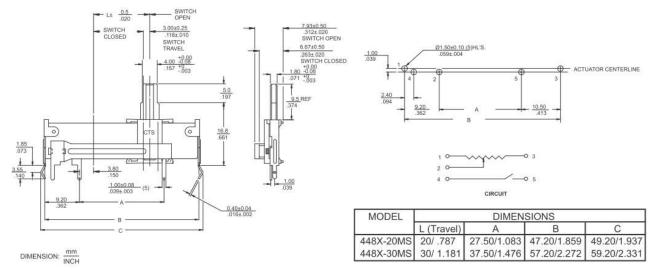
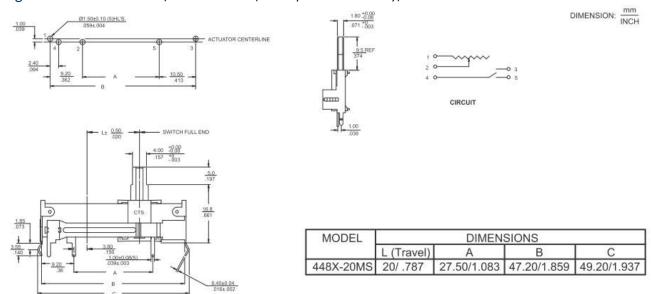


Figure 7 – 448X Mono W/SPDT Switch (with style A actuator only)



448 Series Actuator Styles

