

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

D

40mm 55mm

Ser	ries Mountir Style	ng -	Travel	Actuator Style		sistance Example		Resistance Tolerance	Тар	er	Specials
448	.8 U		Е	2	1	02		В	D		N
	•			V							
Code	Spec.		U & X I	Mounting				•			\
U	Actuator para	allel to PC	2 - Style A	9.5mm			Code	Spec.	-	Code	Spec.
	board		3 - Style B	4.0mm			A	±10%	-	N	No specials
Χ	Actuator perp to PC board	pendicular	4 - Style C	5.0mm			В	±20%	-		SPST power
	Actuator (Lov	v nrofile)	V Mo	ounting			C	±30%		S	switch (20 & 30m
V		perpendicular to PCB		3.35mm				23070			X type only)
	(mono only)				Code	Pocic	tance				SPDT power switch
			V		501		ohms			D	(20mm X type and 9.5mm actuator
		U & X N	Mounting Style	e	102	1K					only)
		Α	10mm		502	51			-		J,
		В	15mm		103	10					
		С	20mm		104	100					
		D	30mm			100					
		Е	45mm								
		F	60mm						•		
		V Mou	unting Style					Co	do	Spec	
		Α	10mm						ue D	Linear	
		В	15mm						<u>Б</u> А	CW 10%	
		С	25mm						<u>`</u> В	CCW 10%	
									_	30 10/	

Electrical Specifications

Parameter	Conditions	& Remarks	Min.		Unit	
Resistance Range	Linear (Audio - consult CTS)		500		1 Meg	ohms
Resistance Tolerance	±30%, ±20)%, ±10%				
Insulation Resistance	at 250) VDC	10 Meg			ohms
	Taper	10mm	15mm 20mm	30mm	45mm	60mm
Maximum Operating Voltage	Linear	100VDC	150VDC 200VDC	250VDC	300VDC	500VDC
	Non-linear	50VDC	50VDC 150VDC	200VDC	250VDC	300VDC
		•	•		•	
Davis Dating weeths	Taper	10mm	15mm 20mm	30mm	45mm	60mm
Power Rating, watts	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)				
Power Switch (optional)	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)				
Slide Travel (with switch)	20mm= 17mm electrical+3mm switch				
Dawar Switch (antional)	ST 10,000 cycles carrying 1,000 watts 120 VAC (Tungsten-filament)				
Power Switch (optional)	SPDT 10,000 cycles carrying 600 watts 120 VAC (Tungsten-filament)				
Operating Force	Potentiometer: 20-150g				
Operating Force	Switch: 100-500g				
Stop Strength	3 Kgf maximum, measured at base of slider				
Operating Life	Standard: 10,000 cycles				
Operating Life	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

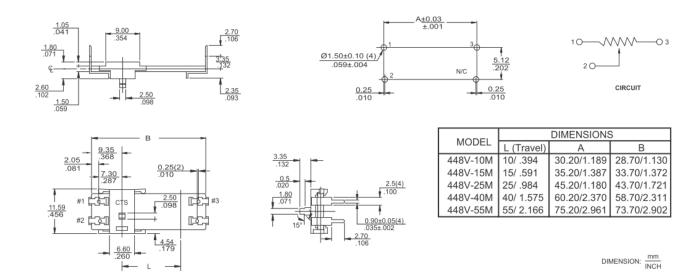


Figure 2 - 448U Mono

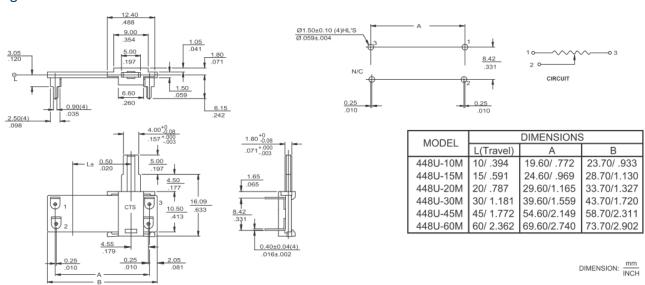


Figure 3 – 448U Dual

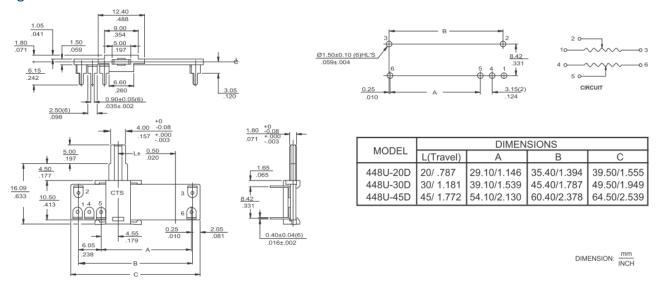


Figure 4 - 448X Mono

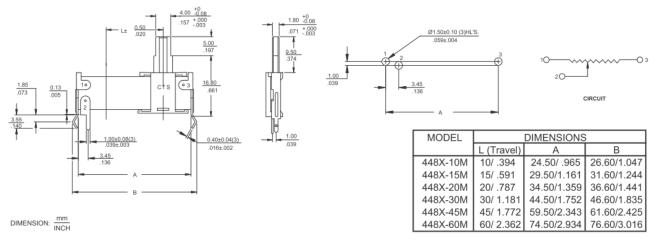


Figure 5 – 448X Dual

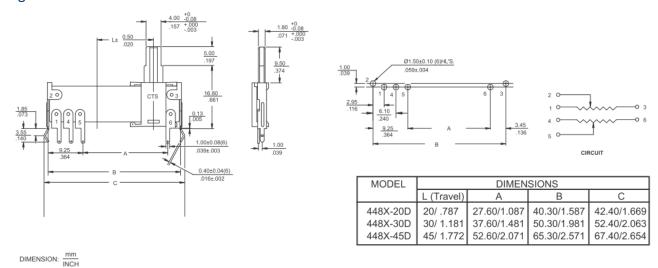


Figure 6 – 448X Mono W/SPST Switch

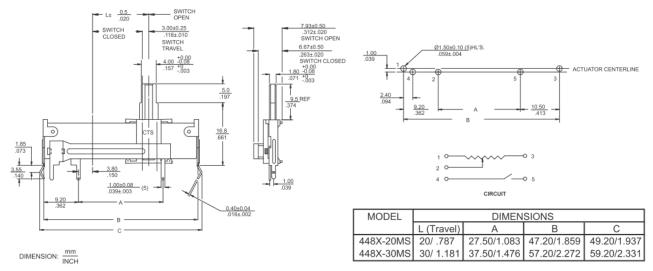
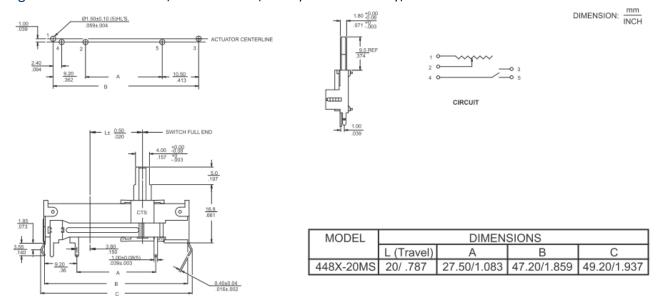
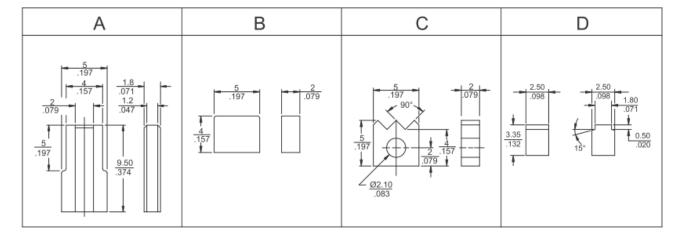


Figure 7 – 448X Mono W/SPDT Switch (with style A actuator only)



448 Series Actuator Styles



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

448XCS1134 448XCS1135 448XCS1136 448XC2504BDD 448UB3104BDN