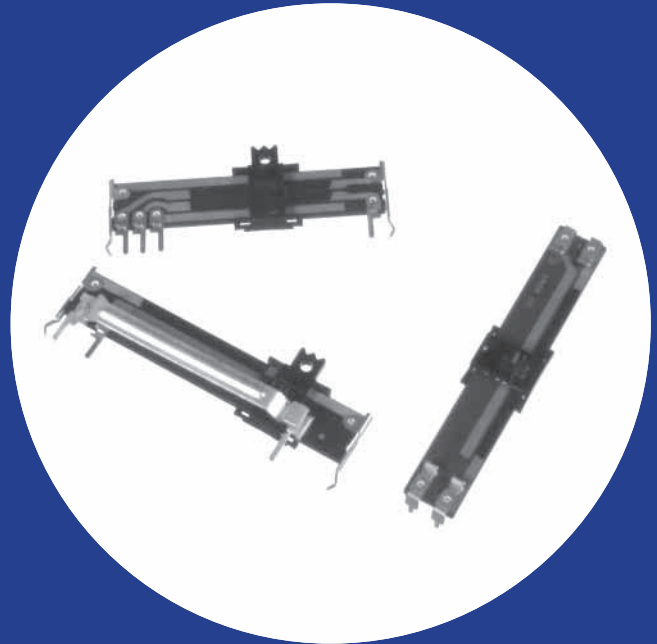


Commercial Linear Motion Carbon Composition Slide Potentiometer

Features

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



Patent No.: US: 5,959,525 , Taiwan: 204502.

Electrical and Mechanical Specifications

Resistance Range

500 ohms through 1 megohms, linear
Consult CTS for audio taper

Resistance Tolerance

±30%, ±20%, ±10%

Insulation Resistance

10 Megohms minimum at 250 VDC

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

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

Potentiometer without switch:

X and U Style: 10, 15, 20, 30, 45, and 60mm

V Style: 10, 15, 25, 40, and 55mm

Potentiometer with switch:

30mm = 27mm electrical + 3mm switch (SPST only)

20mm = 17mm electrical + 3mm switch

Operating Force

Potentiometer : 20-150 g

Switch : 100-500 g

Stop Strength

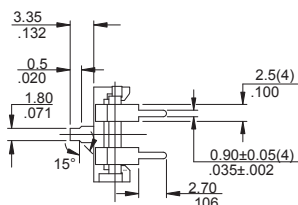
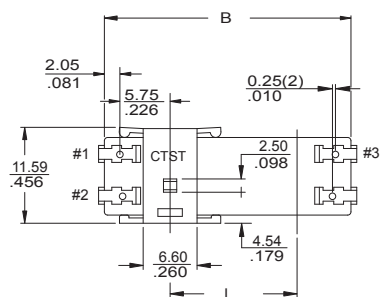
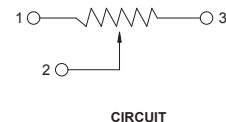
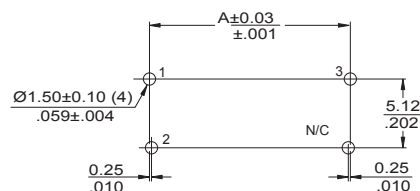
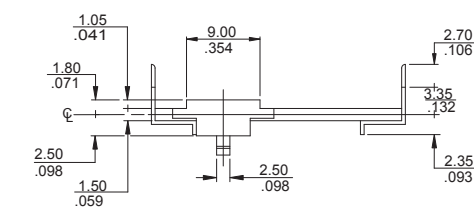
3K gf maximum, measured at base of slider

Operating Life

Standard : 10,000 cycles

Special : 100,000 , 250,000 cycles

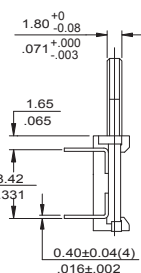
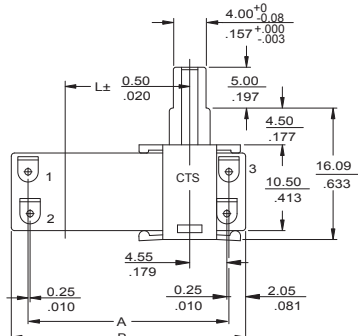
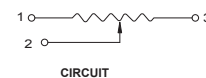
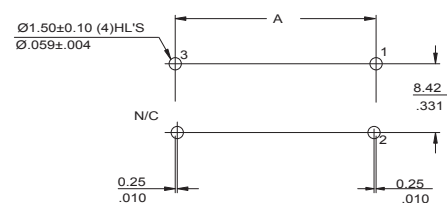
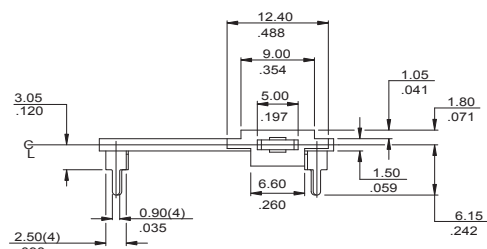
TYPE 448V MONO



MODEL	DIMENSIONS		
	L (Travel)	A	B
448V-10M	10/ .394	30.20/1.189	28.70/1.130
448V-15M	15/ .591	35.20/1.387	33.70/1.372
448V-25M	25/ .984	45.20/1.180	43.70/1.721
448V-40M	40/ 1.575	60.20/2.370	58.70/2.311
448V-55M	55/ 2.166	75.20/2.961	73.70/2.902

DIMENSION: mm
INCH

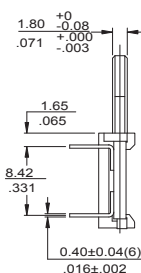
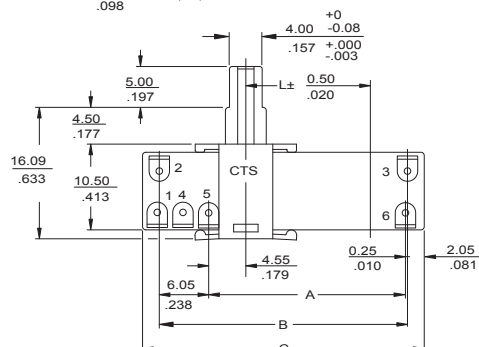
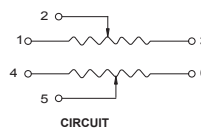
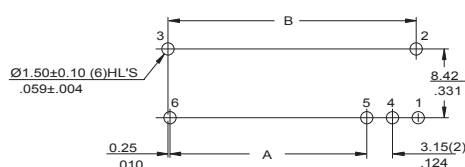
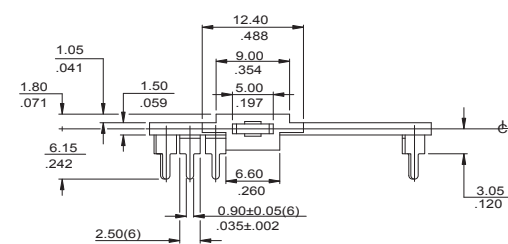
TYPE 448U MONO



MODEL	DIMENSIONS		
	L(Travel)	A	B
448U-10M	10/ .394	19.60/ .772	23.70/ .933
448U-15M	15/ .591	24.60/ .969	28.70/1.130
448U-20M	20/ .787	29.60/1.165	33.70/1.327
448U-30M	30/ 1.181	39.60/1.559	43.70/1.720
448U-45M	45/ 1.772	54.60/2.149	58.70/2.311
448U-60M	60/ 2.362	69.60/2.740	73.70/2.902

DIMENSION: mm
INCH

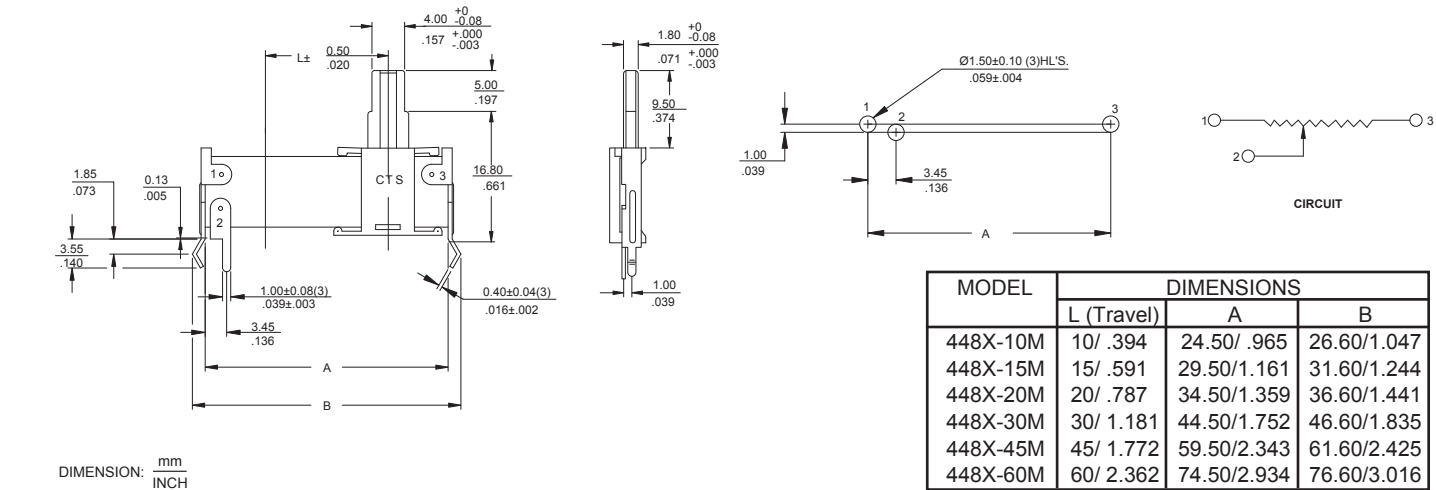
TYPE 448U DUAL



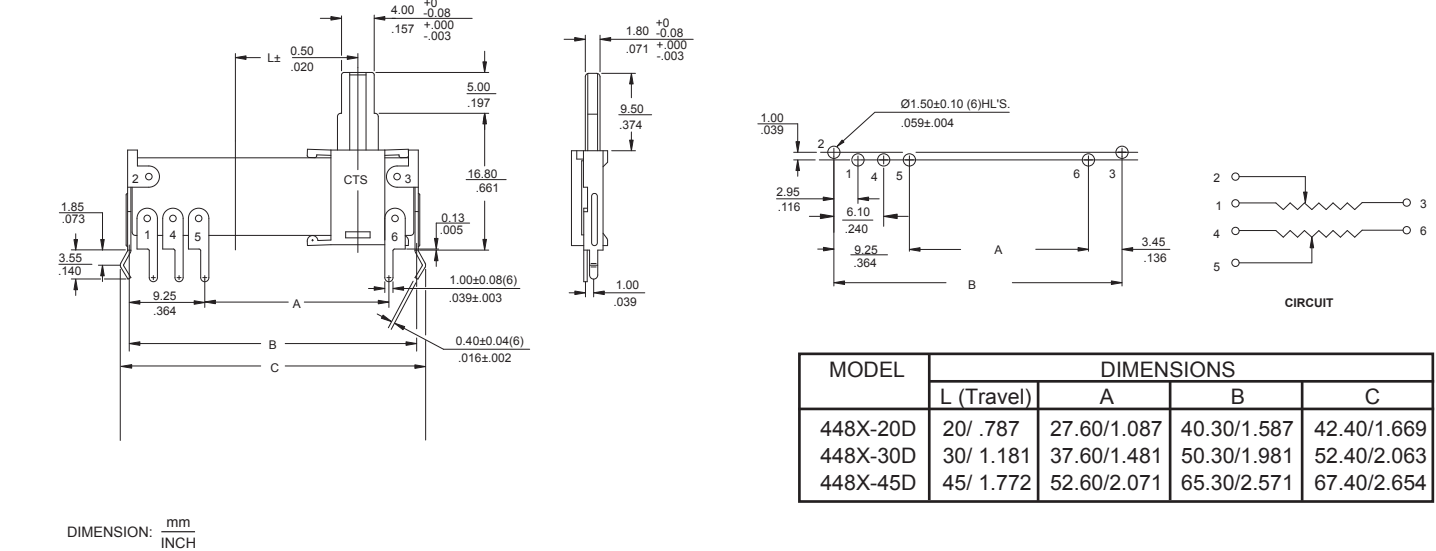
MODEL	DIMENSIONS			
	L(Travel)	A	B	C
448U-20D	20/ .787	29.10/1.146	35.40/1.394	39.50/1.555
448U-30D	30/ 1.181	39.10/1.539	45.40/1.787	49.50/1.949
448U-45D	45/ 1.772	54.10/2.130	60.40/2.378	64.50/2.539

DIMENSION: mm
INCH

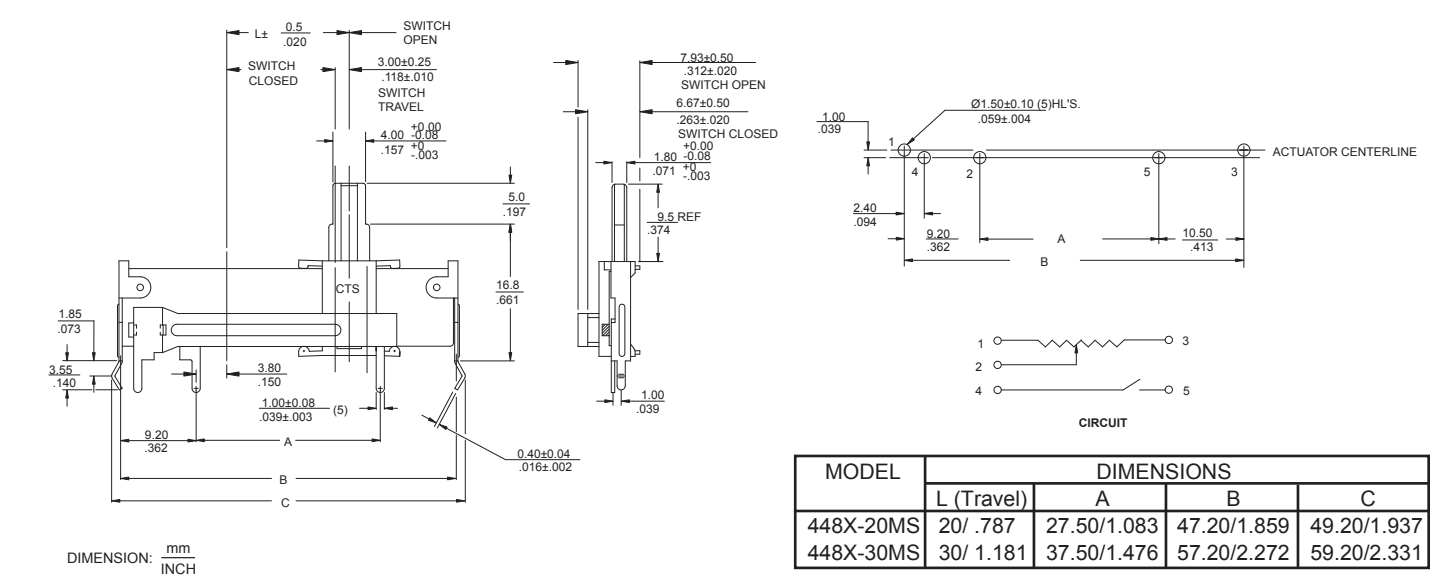
TYPE 448X MONO



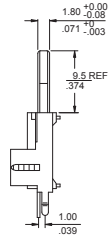
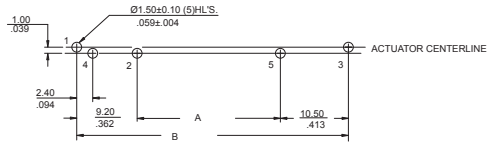
TYPE 448X DUAL



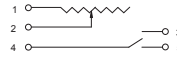
TYPE 448X MONO W/SPST SWITCH



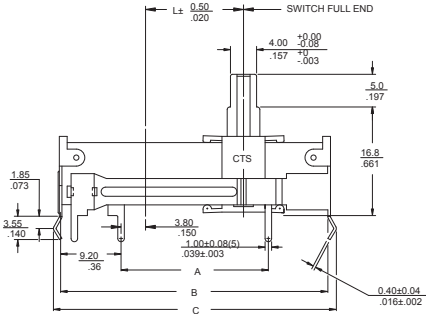
TYPE 448X MONO W/SPDT SWITCH (with style A actuator only)



DIMENSION: $\frac{\text{mm}}{\text{INCH}}$

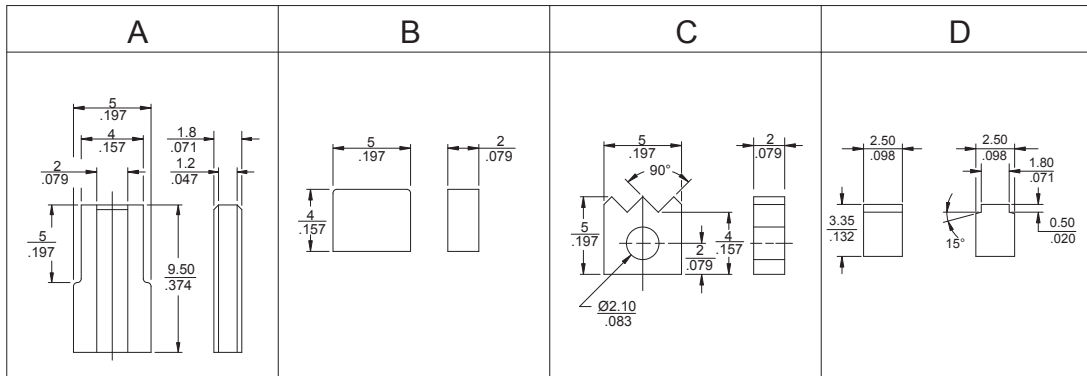


CIRCUIT



MODEL	DIMENSIONS			
	L (Travel)	A	B	C
448X-20MS	20/ .787	27.50/1.083	47.20/1.859	49.20/1.937

448 Series Actuator Styles



Ordering Information

448

U

E

2

102

B

D

N

MOUNTING STYLE	
U -	ACTUATOR PARALLEL TO PC BOARD
X -	ACTUATOR PERPENDICULAR TO PC BOARD
V -	ACTUATOR (Low Profile) PERPENDICULAR TO PCB (mono only)

TRAVEL	
U & X TYPES	V-TYPE
A- 10mm	A- 10mm
B- 15mm	B- 15mm
C- 20mm	C- 25mm
D- 30mm	D- 40mm
E- 45mm	E- 55mm
F- 60mm	

RESISTANCE CODE (EXAMPLES)	
CODE	RESISTANCE
501	500 ohms
102	1K
252	2.5K
502	5K
103	10K
253	25K
503	50K
104	100K

TAPER
D- LINEAR
A- CW 10% AUDIO
B- CCW 10% AUDIO

ACTUATOR STYLE	
U & X TYPES	V-TYPE
2- STYLE A: 9.5mm	1- STYLE D: 3.35mm
3- STYLE B: 4.0mm	
4- STYLE C: 5.0mm	

RESISTANCE TOLERANCE
A- $\pm 10\%$
B- $\pm 20\%$
C- $\pm 30\%$

SPECIALS	
N-	NO SPECIALS
C-	CENTER DETENT
M-	MULTIPLE DETENTS (30mm only)
S-	SPST POWER SWITCH (20 & 30mm, X type only)
D-	SPDT POWER SWITCH (20 mm, X type and 9.5mm actuator only)

Consult CTS for dual resistance element, customized, or not listed features.



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