

# CPA-9000 Series

**PROFADER™**

## Conductive Plastic

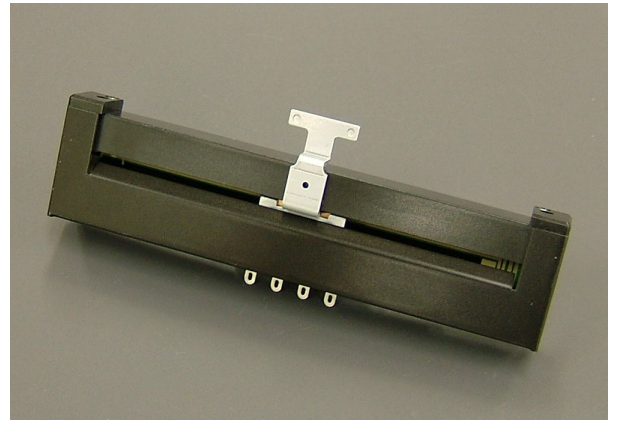
Low sliding noise level & Long sliding life

## Good protection against dust

Horizontal style Control-bar design.

## High Quality

All parts are highly precise.

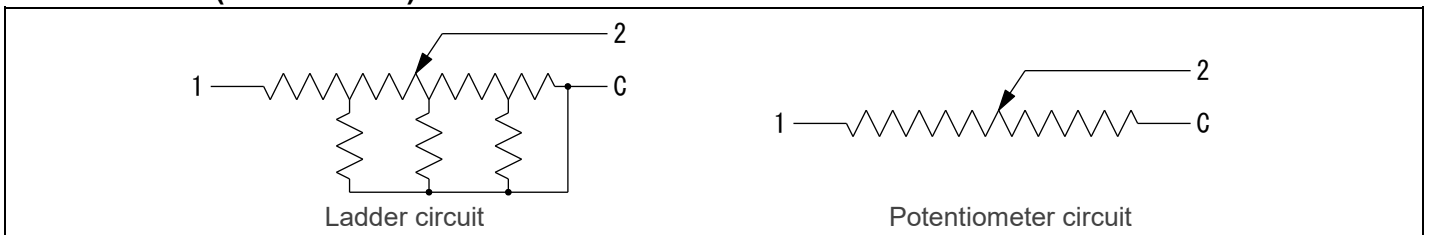


### Model number

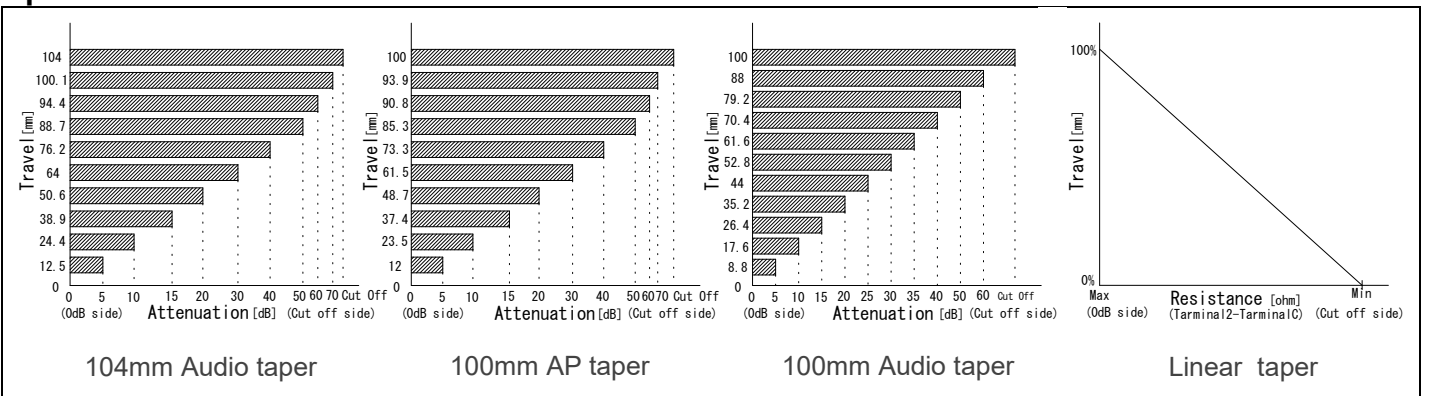
**2** **CPA-910** **1** **C** **W** - **C** - **UNC** - **B** **10K**  
 \*1 \*2 \*3 \*4 \*5 \*6 \*7 \*8 \*9

*1	Number of circuit	<b>Blank:</b> Single circuit <b>2:</b> Two circuits
*2	Product number and Travel	<b>CPA-910:</b> 100mm <b>CPA-920:</b> 104mm
*3	Control-bar length (Please see dimensions "L".)	<b>1:</b> 9mm <b>2:</b> 11mm
*4	Operating force	<b>Blank:</b> Standard <b>C:</b> High operating force *Only "High type" with CP-1 or CP-2 is applicable for the vertical use.
*5	Precision Snap Action Switch ("Center click" is not selectable.)	<b>Blank:</b> Without <b>W:</b> With
*6	Click option ("4" is not selectable.)	<b>Blank:</b> Without <b>C:</b> Center click (100mm and Linear taper only)
*7	Mounting threads	<b>Blank:</b> M3 <b>UNC:</b> 4-40UNC
*8	Output law (Please see figure of output law.)	<b>Blank:</b> Audio taper <b>B:</b> Linear taper <b>AP:</b> AP taper (100mm only)
*9	Total resistance	<b>10K:</b> 10kohm <b>5K:</b> 5kohm

### Circuit method (Unbalanced)



### Output Law



## Electrical specifications

	CPA-910X	2CPA-910X	CPA-920X	2CPA-920X	CPA-910X-AP	2CPA-910X-AP
Number of Circuit	1	2	1	2	1	2
Circuit method	Ladder circuit (Audio taper)				Ladder circuit (AP taper)	
Attenuation accuracy (Load: high)	0~20dB: ±1.0dB (10dB: ±0.5dB) ~40dB: ±2.0dB					
Matching accuracy	-	0~15dB: 0.5dB ~30dB: 1.0dB ~40dB: 2.0dB		0~15dB: 0.5dB ~30dB: 1.0dB ~40dB: 2.0dB	-	0~15dB: 0.5dB ~30dB: 1.0dB ~40dB: 2.0dB
Insertion loss	0.5dB or less					
Cut off (15kHz)	100dB Min.					

	CPA-910X-B	2CPA-910X-B	CPA-920X-B	2CPA-920X-B
Number of Circuit	1	2	1	2
Circuit method	Potentiometer circuit (Linear)			
Linearity	±5%			
Residual resistance	30ohm or less			

	CPA-9000 Series
Total resistance (1-C)	5k, 10kohm
Total resistance tolerance	±20%
Voltage proof	1 Min. at AC500V
Insulation resistance	50Mohm or more at DC500V
Max rating	DC20V (0.1W)
Rated Resistive Load - Switch	AC125V 3A, DC30V 2A (OMRON D2F-F)
Sliding noise level	47mV or less (by JIS C 6443)
Sliding life	100,000 Cycles Min. (18cycles/min, Sliding noise level: Less than 100mV)

## Mechanical specifications

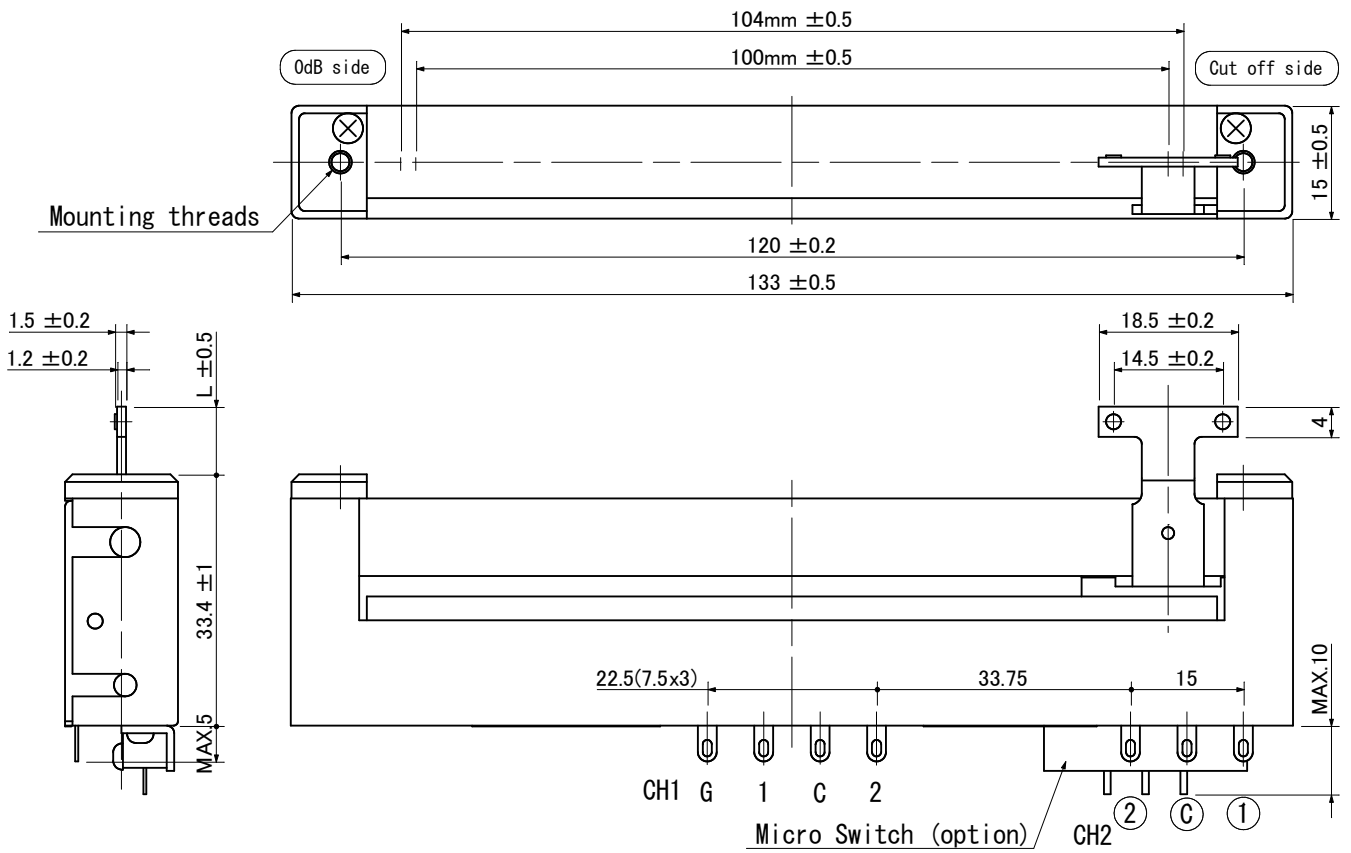
	CPA-910X Series	CPA-920X Series
Stroke length	100mm±0.5mm	104mm±0.5mm
Operating force	0.1~0.25N (Standard), 0.2~0.4N (High operating force, Center click)	
Strength of Nut-Attached	100Ncm	
Attached Parts	M3 screw / 4-40UNC screw (Length: Panel thickness +3mm)	
Stopper strength	50N	
Push-pull strength	40N	
Alignment to the center	±0.5mm (State not to pressure control-bar, Measurement position: Mounting surface)	

## General specifications

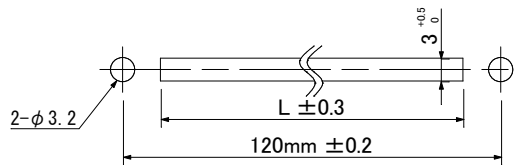
	CPA-9000 Series
Temperature range	-10 to +70 degrees C (Operating), -15 to +75 degrees C (Storage)
Relative humidity	90%RH (No condensation)

- Note**
- \* Solder heat resistance: 350deg C max, 5sec max, 2 times. (Manual soldering only)
  - \* Please take care during soldering that the smoke from the solder does not flow inside a fader.
  - \* If the flux sticks to a resistor board, it may cause a trouble with the fader.
  - \* Move to one end in Control-bar on the occasion of knob wearing, and can break into it slowly.
  - \* It is highly recommended that the fault tolerant system is to be set up in the big situation like the live broadcast.

Dimensions

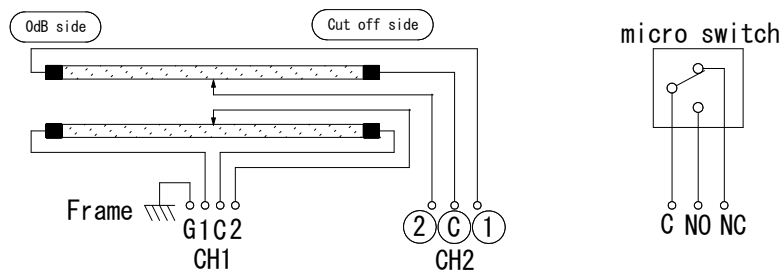


Panel cut out dimensions



L=110mm CPA-9100  
L=114mm CPA-9200

Terminations



The products and their specifications are subject to change without notice.