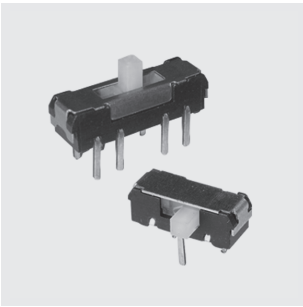


# MHS

## Hyper-miniature Slide Switches

RoHS Compliant



# PICOTOP

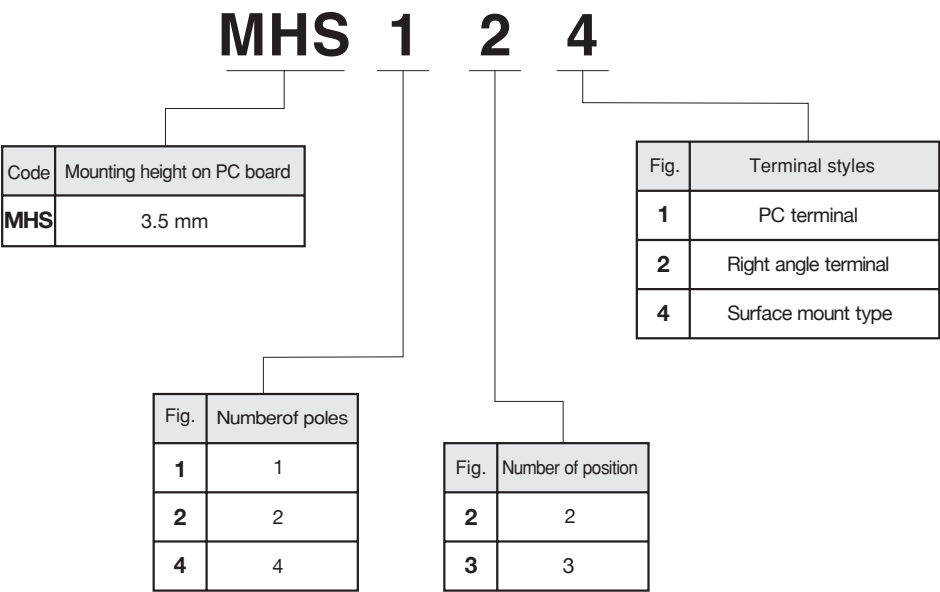
### Features

- 1. Extremely small and low-profile slide switch.
- 2. Available in a wide variety of circuits.

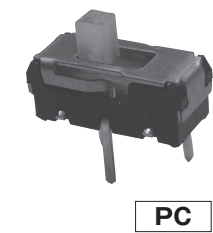
### Specifications

Rating	Max.	0.2A 12VDC	(Resistive load)
	Min.	10mA 5VDC	(Resistive load)
Initial contact resistance	500Ω max. (1.5mA 200μVAC)		
Dielectric strength	500VAC 1 minute		
Insulation resistance	100MΩ min. (500VDC)		
Electrical life	5,000 cycles		
Operating temperature range	-10~+70℃		
Storage temperature range	-20~+80℃		

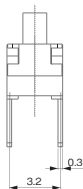
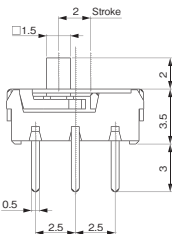
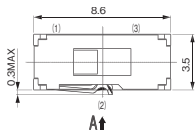
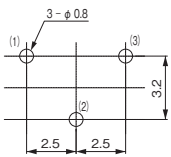
### Part Numbering



MHS121 Non-shorting



PC Hole Layouts (Top view)

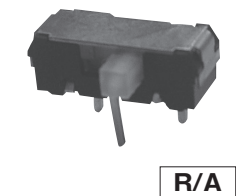


Terminal numbers are not shown on the switch.

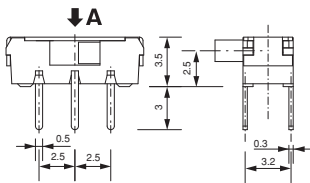
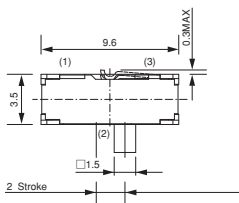
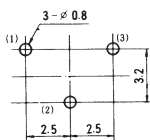
Switching function (Viewed from A)		Circuit diagram	No. of terminals
			3
ON	ON		
2-1	2-3		

●Operating force : 0.49~3.92 N [50~400 gf]

MHS122 Non-shorting



PC Hole Layouts (Top view)

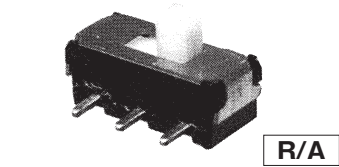


Terminal numbers are not shown on the switch.

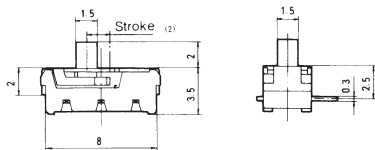
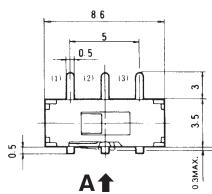
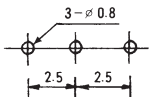
Switching function (Viewed from A)		Circuit diagram	No. of terminals
			3
ON	ON		
2-3	2-1		

●Operating force : 0.49~3.92 N [50~400 gf]

MHS122 -1 Non-shorting



PC Hole Layouts (Top view)

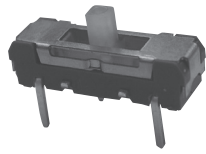


Terminal numbers are not shown on the switch.

Switching function (Viewed from A)		Circuit diagram	No. of terminals
			3
ON	ON		
2-1	2-3		

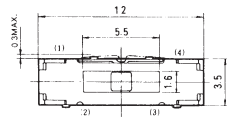
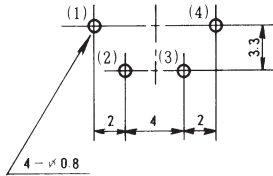
●Operating force : 0.49~3.92 N [50~400 gf]

MHS131 Non-shorting

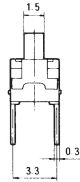
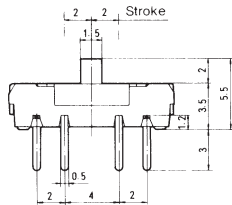


PC

PC Hole Layouts (Top view)



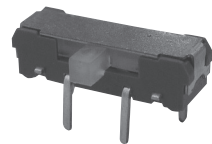
A↑



●Operating force : 0.49~3.92N [50~400 gf]

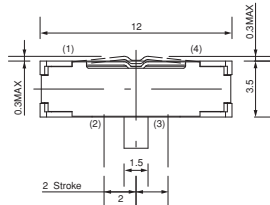
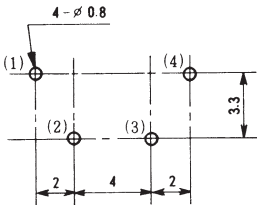
Switching function (Viewed from A)			Circuit diagram	No. of terminals
				4
ON	ON	ON		
3-1	3-2	3-4		

★MHS132 Non-shorting

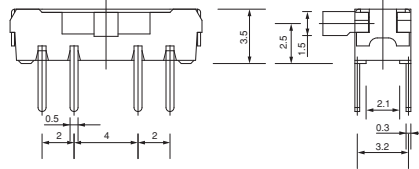


R/A

PC Hole Layouts (Top view)



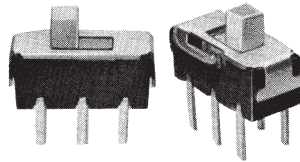
A↓



●Operating force : 0.49~3.92 N [50~400 gf]

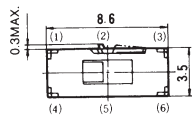
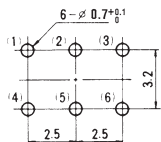
Switching function (Viewed from A)			Circuit diagram	No. of terminals
				4
ON	ON	ON		
3-4	3-2	3-1		

MHS221 Non-shorting

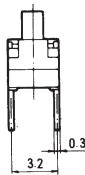
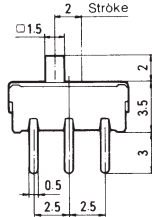


PC

PC Hole Layouts (Top view)



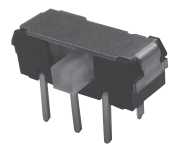
A↑



Switching function (Viewed from A)		Circuit diagram	No. of terminals
			6
ON	ON		
2-1 5-4	2-3 5-6		

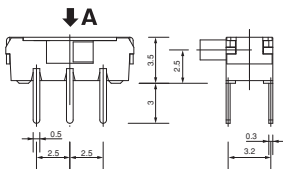
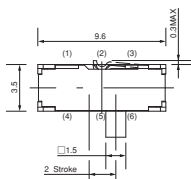
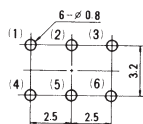
●Operating force : 0.49~3.92 N [50~400 gf]

MHS222 Non-shorting



R/A

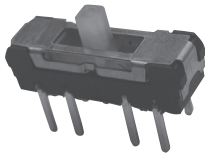
PC Hole Layouts (Top view)



Switching function (Viewed from A)		Circuit diagram	No. of terminals
			6
ON	ON		
2-3 5-6	2-1 5-4		

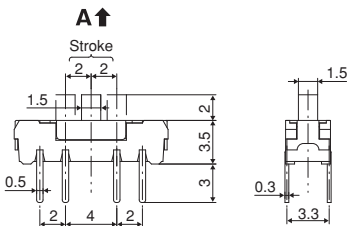
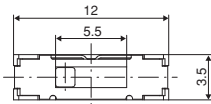
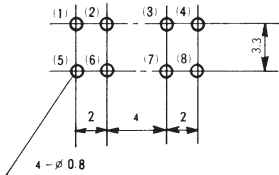
●Operating force : 0.49~3.92 N [50~400 gf]

MHS231 Non-shorting



PC

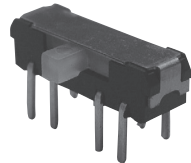
PC Hole Layouts (Top view)



Switching function (Viewed from A)			Circuit diagram	No. of terminals
				8
ON	ON	ON		
3-1 7-5	3-2 7-6	3-4 7-8		

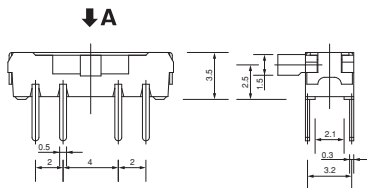
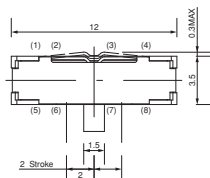
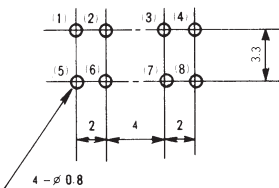
●Operating force : 0.49~3.92 N [50~400 gf]

★MHS232 Non-shorting



R/A

PC Hole Layouts (Top view)

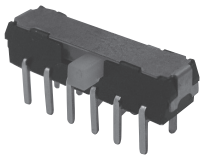


Switching function (Viewed from A)			Circuit diagram	No. of terminals
				8
ON	ON	ON		
3-4 7-8	3-2 7-6	3-1 7-5		

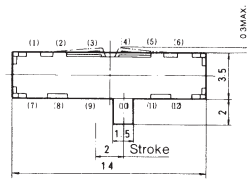
●Operating force : 0.49~3.92 N [50~400 gf]

## MHS422

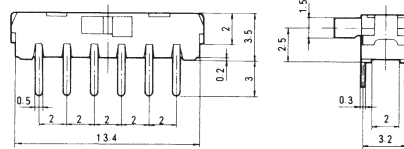
Non-shorting



R/A



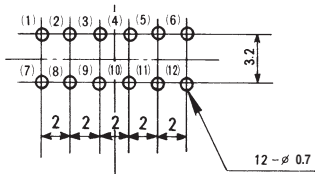
↓A



Terminal numbers are not shown on the switch.

## PC Hole Layouts

(Top view)



Switching function (Viewed from A)		Circuit diagram	No. of terminals
			12
ON	ON		
2-3	2-1		
5-6	5-4		
8-9	8-7		
11-12	11-10		

●/Operating force : 1.47~3.92N {150~400 gf}

## Soldering Specifications

## (1) Manual Soldering

Device : Soldering iron

① 380°C, Max.; 3 seconds, Max.

## (2) Auto Soldering (MHS121/MSH131/MHS221/MHS231 only)

Device : Jet wave type or dip type

① 275°C, Max.; 6 seconds, Max.

●Pre-heating should be done at temperatures ranging from 80°C to 120°C and within 120 seconds

(3) When soldering two or more terminals to the common land, use solder resist to solder them independently.

## Flux Cleaning

(1) Solvent : Fluorine or Alcohol type.

(2) Not process sealed, if the PC board is to be cleaned, clean the soldering surface of substrate with a brush so that the switch is not exposed to the cleaning solution.

## Frequency of switch use

If the switch is not likely to be operated frequently (e.g. two or three operations a year) in the dry circuit area, a sulfide film is likely to be formed on the contacts, resulting in contact failure. If this is the case, gold-plated products are recommended. Please contact your local Nidec Copal Electronics sales representative.

## Packaging Specifications

## Plastic Bag

