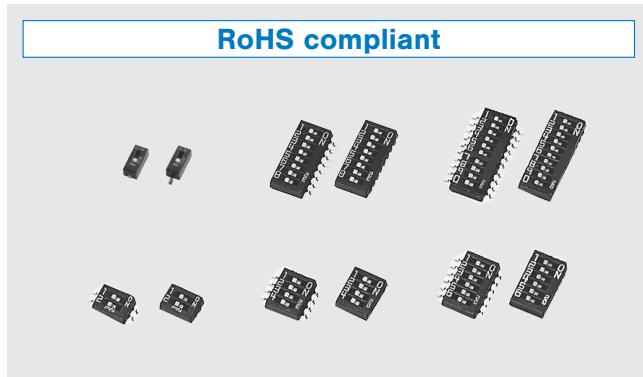


SLIDE SWITCHES (HALF PITCH)

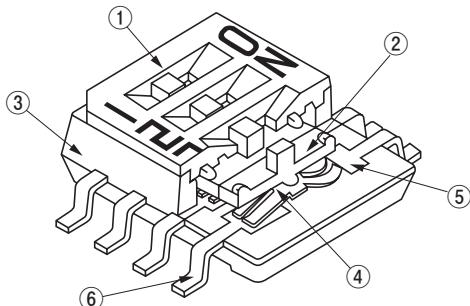
CHS



■ FEATURES

- RoHS compliant
- Meets EIAJ SOP standard outline dimensions (B type)
- Low profile design of 2.5 mm
- 12 types of 1, 2, 4, 6, 8 or 10 bit with either gull wing or J-hook available
- Excellent contact stability by twin Gold-plated contact
- Resin material is UL Recognized 94V-0

INTERNAL STRUCTURE



Part name		Material
①	Cover	Polyphenylenesulfide
②	Slider	Polyamide
③	Housing	Polyphenylenesulfide
④	Slider contact	Copper alloy, Gold-plated
⑤	Fixed contact	
⑥	Terminal pin	

■ PART NUMBER DESIGNATION

CHS - 06 T A 1

Series name

No. of bits

- 01 : 1 bit
- 02 : 2 bits
- 04 : 4 bits
- 06 : 6 bits
- 08 : 8 bits
- 10 : 10 bits

Form of packaging

- T : Taping (Reel)
- M : Magazine
- Blank : Bulk in plastic bag

Structure

- 1 : Non-washable type (Without seal tape)
Standard type
- 2 : Non-washable type (With seal tape)
Blank : Washable type (With seal tape)

Shape of terminal

- A : J-hook
- B : Gull wing

* Please refer to the LIST OF PART NUMBERS when placing orders.

CHS**SLIDE SWITCHES (HALF PITCH)****■ LIST OF PART NUMBERS**

No. of bits	Form of packaging	Shape of terminals	Non-washable type (Without seal tape)				Non-washable type (With seal tape)				Packaging quantity
			A	J-hook	B	Gull wing	A	J-hook	B	Gull wing	
1	Taping	CHS-01TA1		CHS-01TB1			CHS-01TA2		CHS-01TB2		1000 pcs./reel
	Magazine										
	Plastic bag	CHS-01A1		CHS-01B1							50 pcs./pack
2	Taping	CHS-02TA1		CHS-02TB1			CHS-02TA2		CHS-02TB2		500 pcs./reel
	Magazine										
	Plastic bag	CHS-02A1		CHS-02B1							50 pcs./pack
4	Taping	CHS-04TA1		CHS-04TB1			CHS-04TA2		CHS-04TB2		500 pcs./reel
	Magazine	CHS-04MA1		CHS-04MB1							70 pcs./stick
	Plastic bag	CHS-04A1		CHS-04B1							50 pcs./pack
6	Taping	CHS-06TA1		CHS-06TB1			CHS-06TA2		CHS-06TB2		500 pcs./reel
	Magazine	CHS-06MA1		CHS-06MB1							50 pcs./stick
	Plastic bag	CHS-06A1		CHS-06B1							50 pcs./pack
8	Taping	CHS-08TA1		CHS-08TB1			CHS-08TA2		CHS-08TB2		500 pcs./reel
	Magazine	CHS-08MA1		CHS-08MB1							40 pcs./stick
	Plastic bag	CHS-08A1		CHS-08B1							50 pcs./pack
10	Taping	CHS-10TA1		CHS-10TB1			CHS-10TA2		CHS-10TB2		500 pcs./reel
	Magazine	CHS-10MA1		CHS-10MB1							30 pcs./stick
	Plastic bag	CHS-10A1		CHS-10B1							50 pcs./pack

No. of bits	Form of packaging	Shape of terminals	Washable type (With seal tape)				Packaging quantity
			A	J-hook	B	Gull wing	
1	Taping	CHS-01TA		CHS-01TB			1000 pcs./reel
	Magazine						
	Plastic bag	CHS-01A		CHS-01B			50 pcs./pack
2	Taping	CHS-02TA		CHS-02TB			500 pcs./reel
	Magazine						
	Plastic bag	CHS-02A		CHS-02B			50 pcs./pack
4	Taping	CHS-04TA		CHS-04TB			500 pcs./reel
	Magazine	CHS-04MA		CHS-04MB			70 pcs./stick
	Plastic bag	CHS-04A		CHS-04B			50 pcs./pack
6	Taping	CHS-06TA		CHS-06TB			500 pcs./reel
	Magazine	CHS-06MA		CHS-06MB			50 pcs./stick
	Plastic bag	CHS-06A		CHS-06B			50 pcs./pack
8	Taping	CHS-08TA		CHS-08TB			500 pcs./reel
	Magazine	CHS-08MA		CHS-08MB			40 pcs./stick
	Plastic bag	CHS-08A		CHS-08B			50 pcs./pack
10	Taping	CHS-10TA		CHS-10TB			500 pcs./reel
	Magazine	CHS-10MA		CHS-10MB			30 pcs./stick
	Plastic bag	CHS-10A		CHS-10B			50 pcs./pack

☒ : Not manufactured

※ Verify the above part numbers when placing orders.

Taping and magazine version can be supplied only in reel or stick units.

■ STANDARD SPECIFICATIONS

Operating temp. range	- 40 ~ 85 °C
Storage temp. range	
Sealing	Washable type available with seal tape
Net weight	Approx. 0.05 g (CHS-01) Approx. 0.08 g (CHS-02) Approx. 0.12 g (CHS-04) Approx. 0.17 g (CHS-06) Approx. 0.22 g (CHS-08) Approx. 0.25 g (CHS-10)

■ ELECTRICAL CHARACTERISTICS

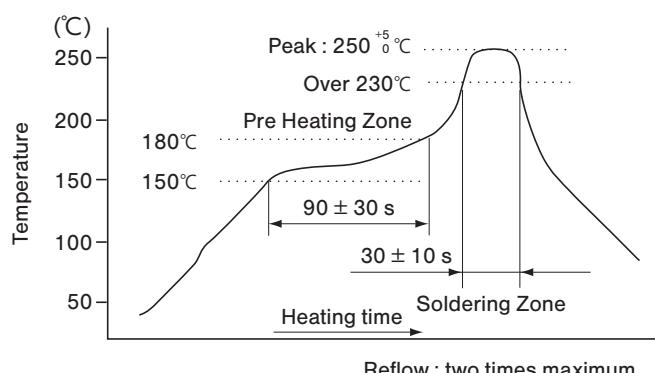
Contact rating Non-switching Switching Minimum	DC50 V 100 mA DC6 V, 100 mA DC24 V, 25 mA DC20 mV 1 µA
Contact resistance	50 mΩ maximum
Insulation resistance	1000 MΩ (DC100 V) minimum
Dielectric strength	AC500 V, 60 s

■ MECHANICAL CHARACTERISTICS

Operating force	0.5 ~ 5 N {0.05 ~ 0.51 kgf}
Stop strength	10 N {1.02 kgf}, 60 s
Solderability	245 ± 3 °C, 2 ~ 3 s
Soldering heat	Reflow : 255 °C (Peak temperature) (Please refer to the profile below)
	Manual soldering : 350 ± 10 °C, 3 ~ 4 s
Shear (Adhesion)	5 N {0.51 kgf} 10 s
Substrate bending	Width 90 mm, bend 3 mm, 5 s, 1 time
Pull-off strength	5 N {0.51 kgf} 10 s

{ } : Reference only

〈Reflow profile for soldering heat evaluation〉

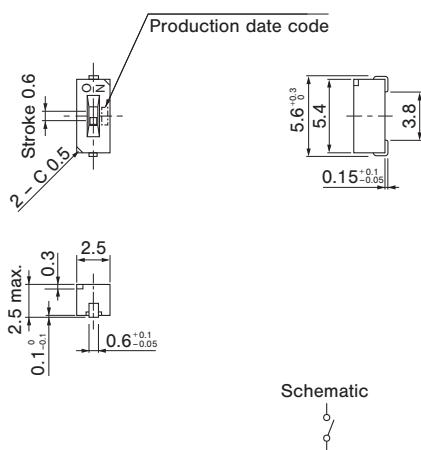


CHS

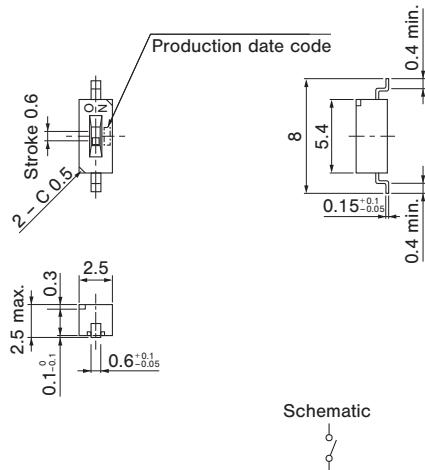
SLIDE SWITCHES (HALF PITCH)

■ OUTLINE DIMENSIONS

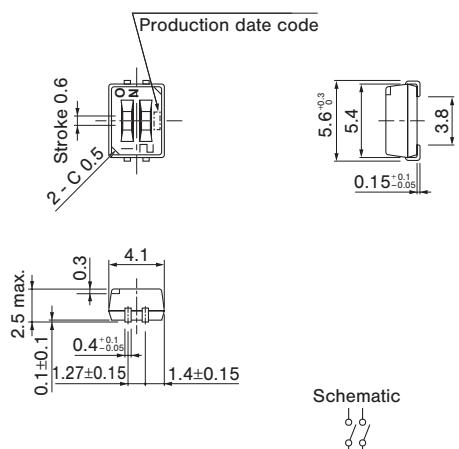
● **CHS-01A1**
Non-washable type
(Without seal tape)



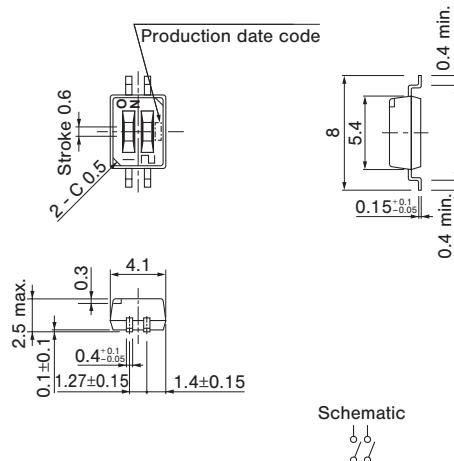
● **CHS-01B1**
Non-washable type
(Without seal tape)



● **CHS-02A1**
Non-washable type
(Without seal tape)



● **CHS-02B1** (In accordance with EIAJ ED-7402-1)
Non-washable type
(Without seal tape)

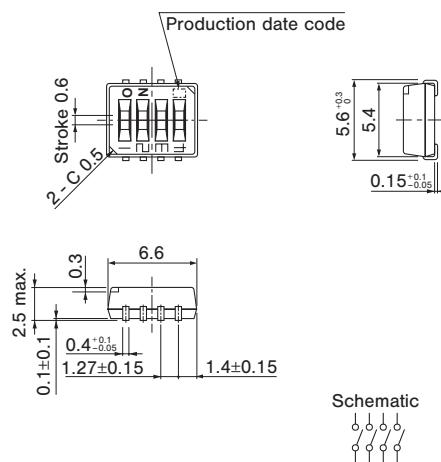


Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

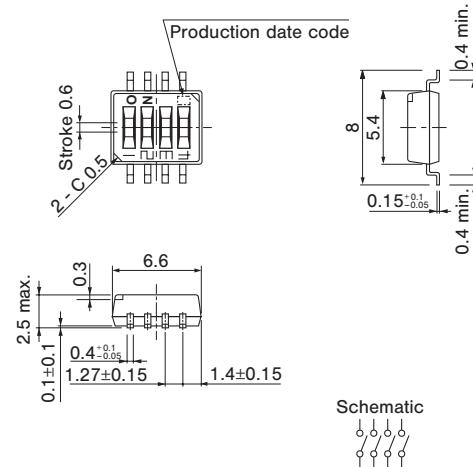
■ OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

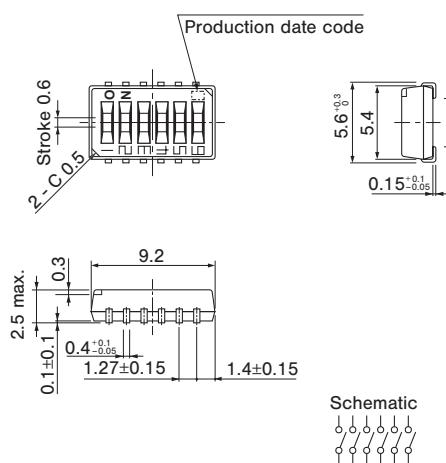
● CHS-04A1
Non-washable type
(Without seal tape)



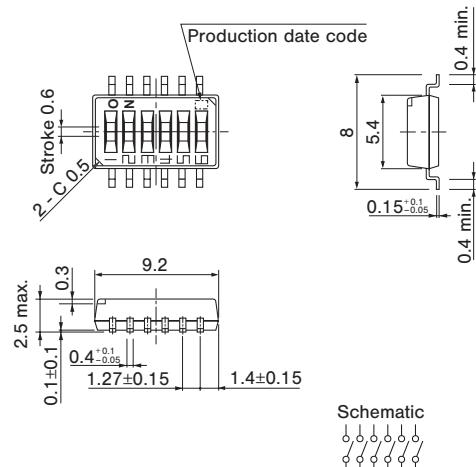
● **CHS-04B1** (In accordance with EIAJ ED-7402-1)
Non-washable type
(Without seal tape)



● CHS-06A1
Non-washable type
(Without seal tape)



- **CHS-06B1** (In accordance with EIAJ ED-7402-1)
Non-washable type
(Without seal tape)

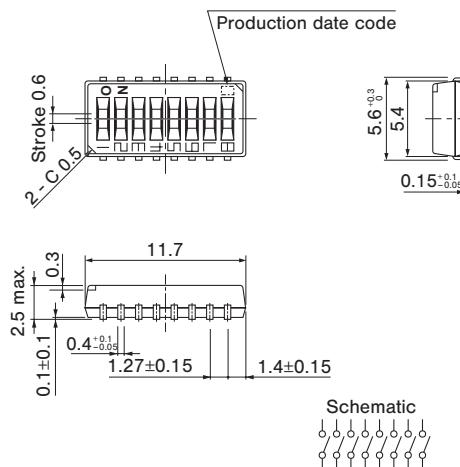


CHS

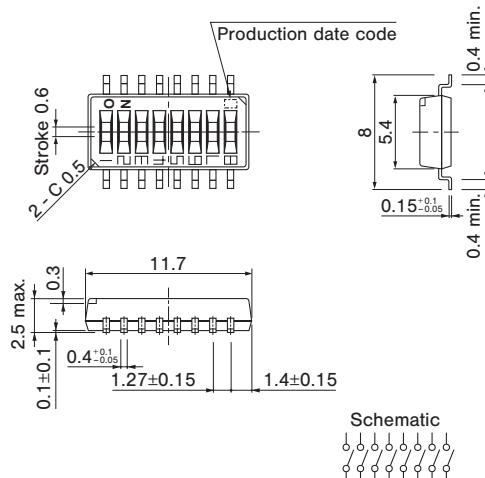
SLIDE SWITCHES (HALF PITCH)

■ OUTLINE DIMENSIONS

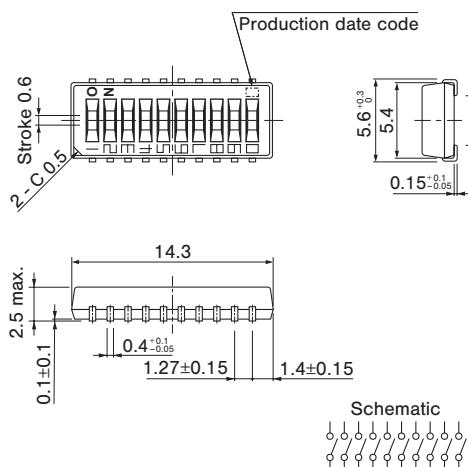
● **CHS-08A1**
Non-washable type
(Without seal tape)



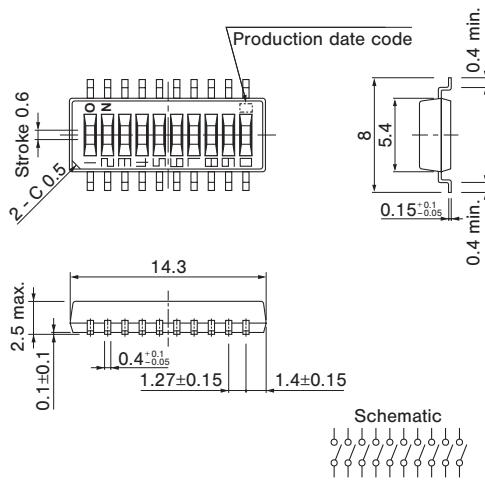
● **CHS-08B1** (In accordance with EIAJ ED-7402-1)
Non-washable type
(Without seal tape)



● **CHS-10A1**
Non-washable type
(Without seal tape)



● **CHS-10B1** (In accordance with EIAJ ED-7402-1)
Non-washable type
(Without seal tape)



Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

CHS

SLIDE SWITCHES (HALF PITCH)

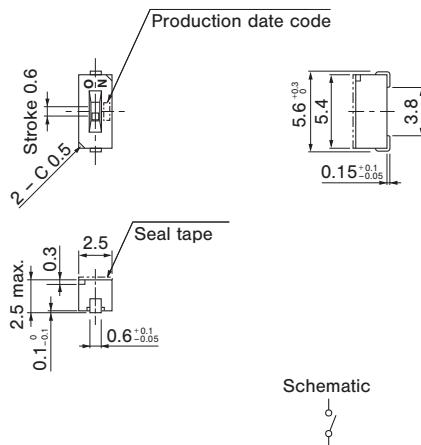
■ OUTLINE DIMENSIONS

● CHS-01A

Washable type (With seal tape)

● CHS-01TA2

Non-washable type (With seal tape)

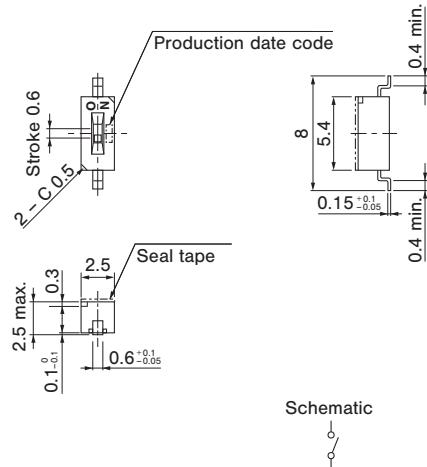


● CHS-01B

Washable type (With seal tape)

● CHS-01TB2

Non-washable type (With seal tape)



● CHS-02A

Washable type (With seal tape)

● CHS-02TA2

Non-washable type (With seal tape)

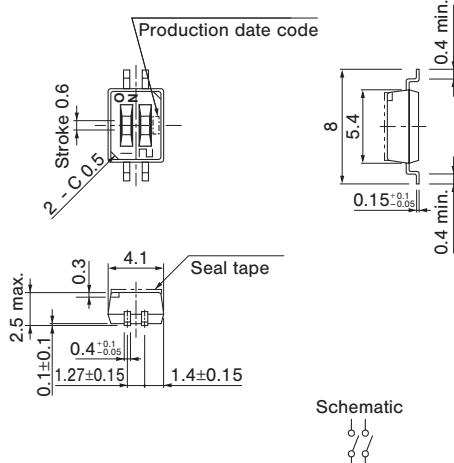
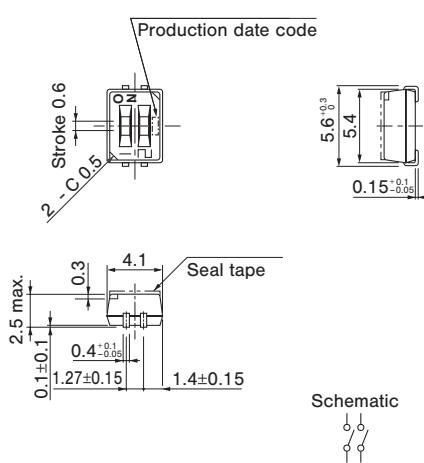
● CHS-02B

Washable type (With seal tape)

● CHS-02TB2

Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)



Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

CHS

SLIDE SWITCHES (HALF PITCH)

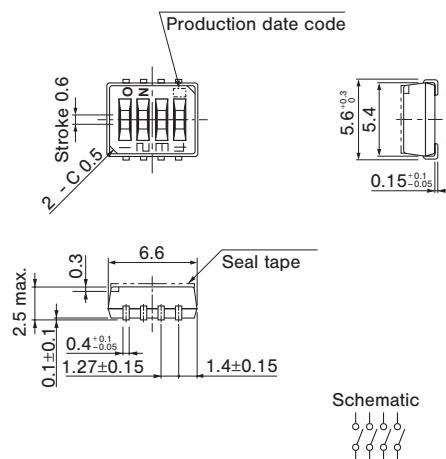
■ OUTLINE DIMENSIONS

● CHS-04A

Washable type (With seal tape)

● CHS-04TA2

Non-washable type (With seal tape)



Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

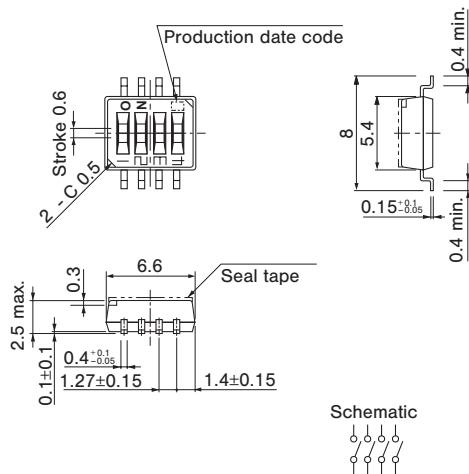
● CHS-04B

Washable type (With seal tape)

● CHS-04TB2

Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)

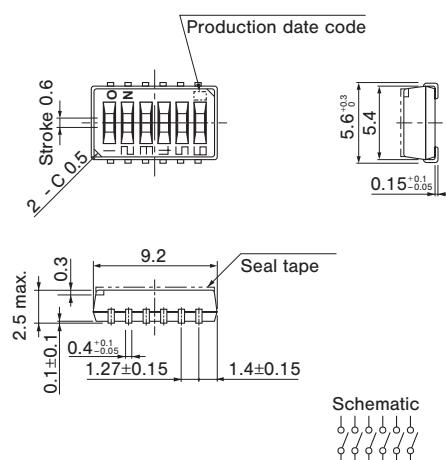


● CHS-06A

Washable type (With seal tape)

● CHS-06TA2

Non-washable type (With seal tape)



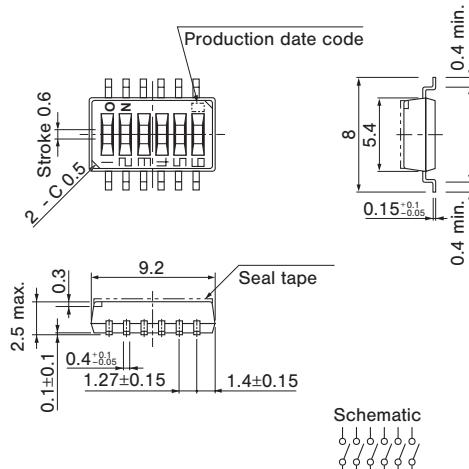
● CHS-06B

Washable type (With seal tape)

● CHS-06TB2

Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)



CHS

SLIDE SWITCHES (HALF PITCH)

■ OUTLINE DIMENSIONS

● **CHS-08A**

Washable type (With seal tape)

● **CHS-08TA2**

Non-washable type (With seal tape)

Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

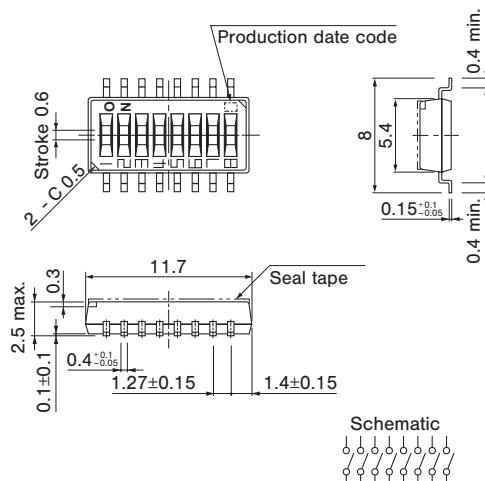
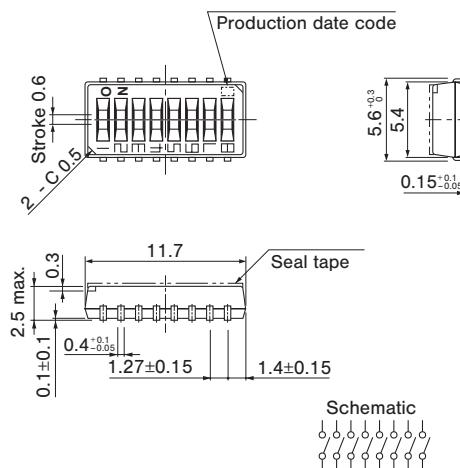
● **CHS-08B**

Washable type (With seal tape)

● **CHS-08TB2**

Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)



● **CHS-10A**

Washable type (With seal tape)

● **CHS-10TA2**

Non-washable type (With seal tape)

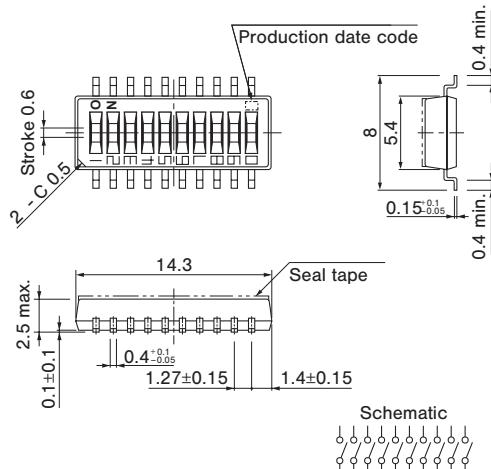
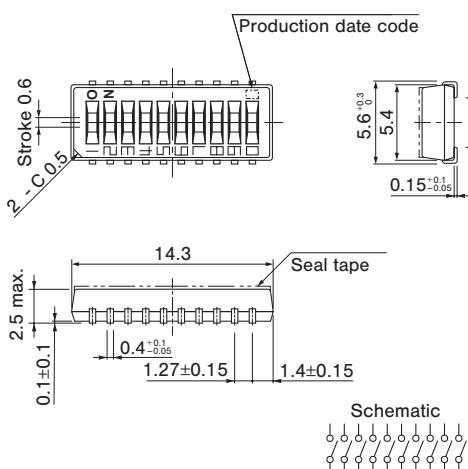
● **CHS-10B**

Washable type (With seal tape)

● **CHS-10TB2**

Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)



CHS

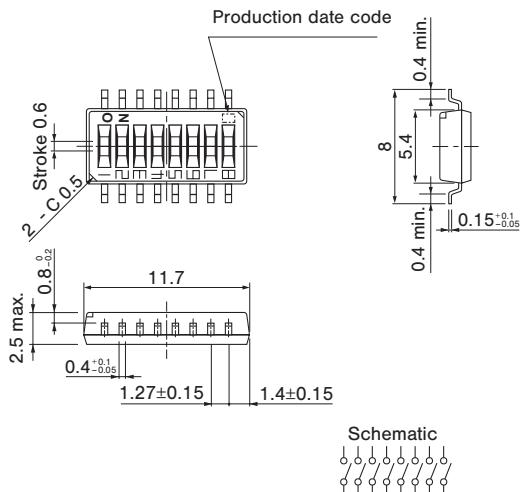
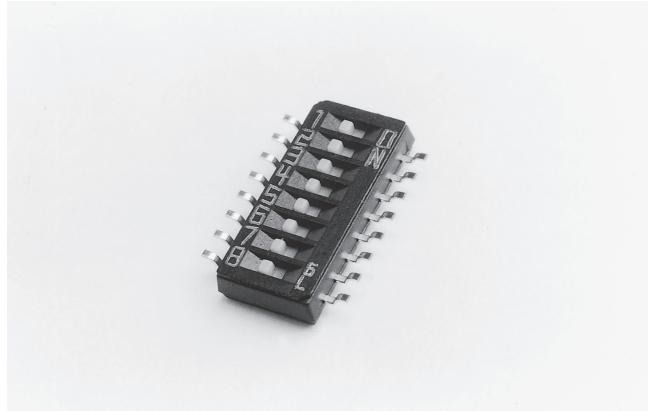
SLIDE SWITCHES (HALF PITCH)

■ OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

< Reference > The D version with opposite pin direction is available upon receipt of your order.

● CHS-08D

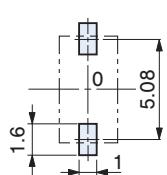


■ RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

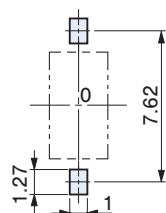
● 1 bit

(Unit : mm)

A type

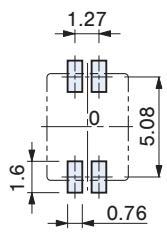


B type

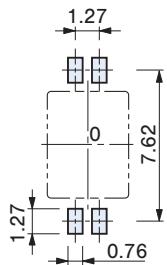


● 2 bits

A type



B type

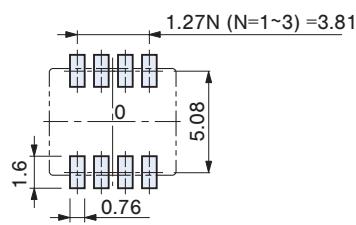


Note) The zero point is the center of mounting.

RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

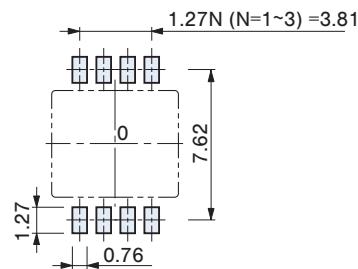
● 4 bits

A type



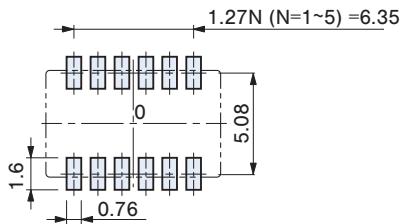
(Unit : mm)

B type

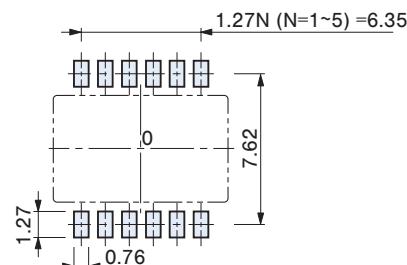


● 6 bits

A type

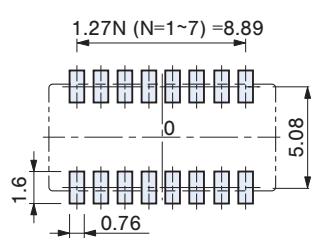


B type

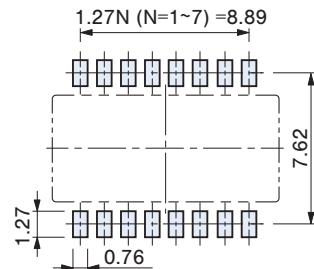


● 8 bits

A type

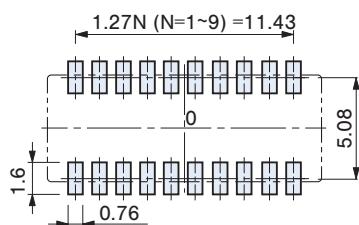


B type

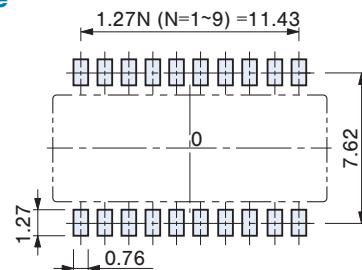


● 10 bits

A type



B type



Note) The zero point is the center of mounting.

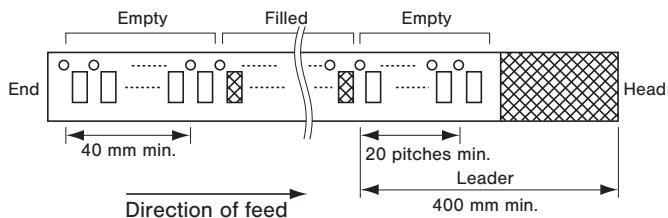
■ PACKAGING SPECIFICATIONS

<Taping packaging specifications>

- Taping version (CHS-02 ~ 10 types) are packaged in 500 pcs. per reel. Orders will be accepted for units of 500 pcs., i.e., 500, 1000, 1500 pcs., etc.
- CHS-01 type is packaged in 1000 pcs. per reel. Orders will be accepted for units of 1000 pcs., i.e., 2000, 3000 pcs., etc.
- Taping version is boxed with two reels.

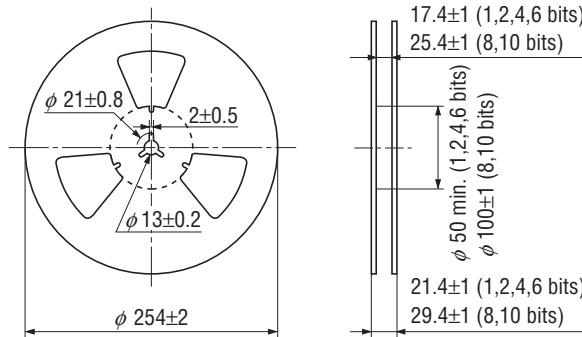
Maximum number of consecutive missing pieces=2
 Leader length and reel dimension are shown in the diagrams below:

● Embossed tape dimensions

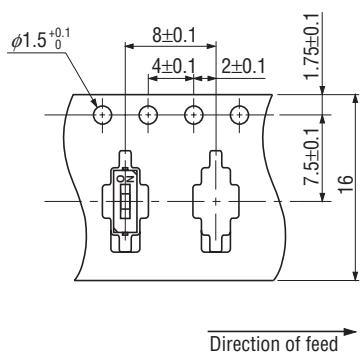


● Reel dimensions

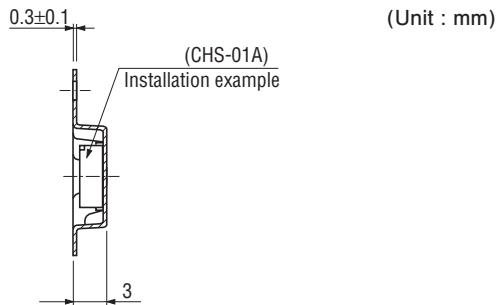
(Conforms to JIS C 0806-3)
 (In accordance with EIAJ ET-7200A)



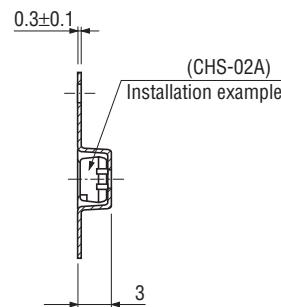
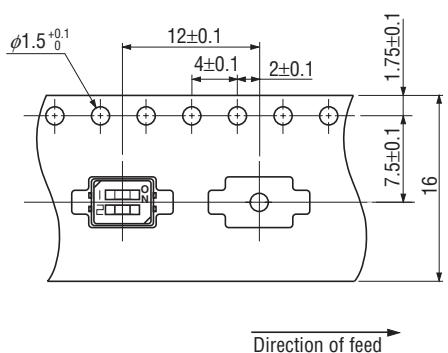
● 1 bit



(Conforms to JIS C 0806)

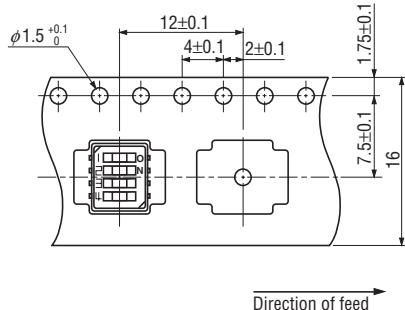


● 2 bits

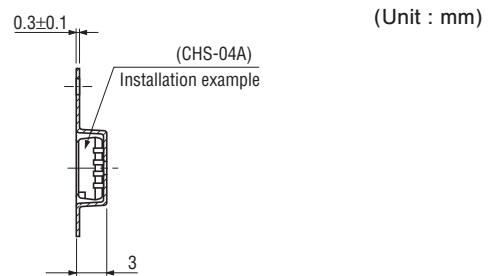


SLIDE SWITCHES (HALF PITCH)

● 4 bits

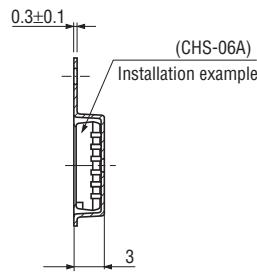
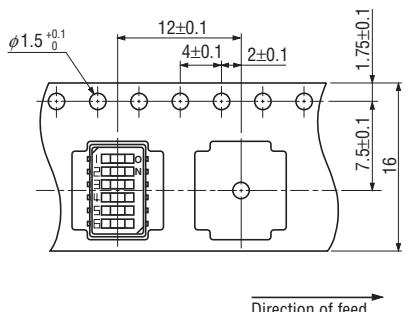


(Conforms to JIS C 0806)

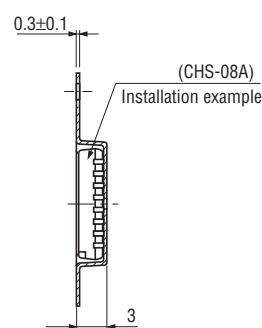
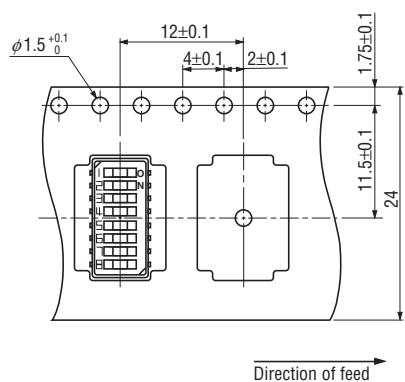


(Unit : mm)

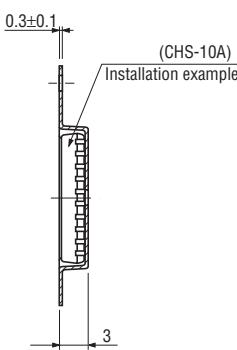
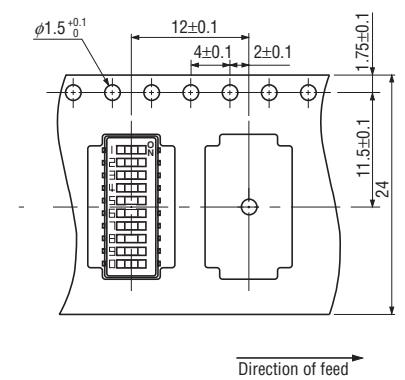
● 6 bits



● 8 bits



● 10 bits



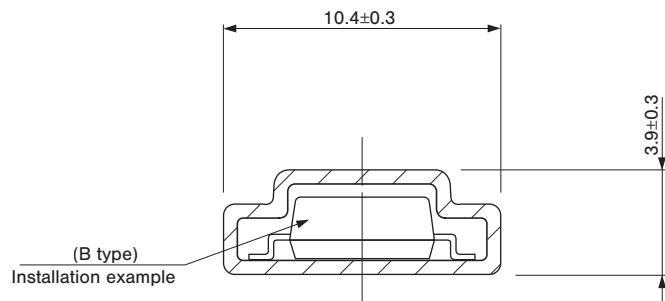
<Magazine packaging specifications>

- Packing quantities of magazines are different depending on the bit number of the switches.
Please order the multiple numbers of the specific packing quantities. (e.g. 70 pcs., 140 pcs., 210 pcs., etc., in case of 4 bits version)

Pieces in package : 4 bits, 70pcs./stick
6 bits, 50pcs./stick
8 bits, 40pcs./stick
10 bits, 30pcs./stick

● Magazine dimensions

(Unit : mm)

**<Bulk pack specifications>**

- The smallest unit of bulk pack in a plastic bag is 10 pcs. per pack.
Orders will be accepted for unit of minimum 10 pcs., i.e., 10, 20, 30 pcs., etc.
- Boxing of bulk in a plastic bag is performed with 50 pcs. (standard 200 pcs.) per box.