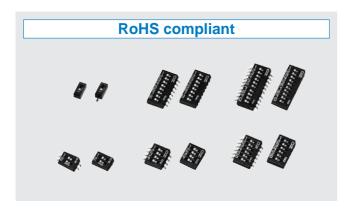
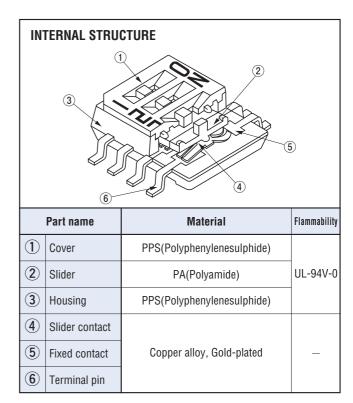
SLIDE SWITCHES (HALF PITCH)

CHS

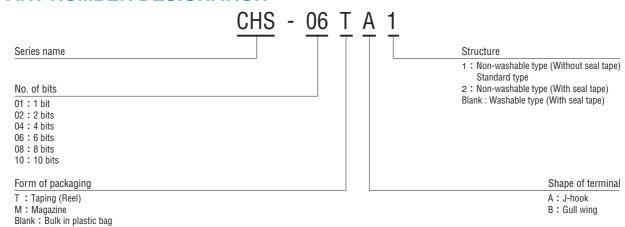


IFEATURES

- 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



PART NUMBER DESIGNATION



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



LIST OF PART NUMBERS

No. of bits	Form of Shape of terminals	Non-washable type (Without seal tape)		Non-washable type (With seal tape)		Pieces in package
		A (J-hook)	B (Gull wing)	A (J-hook)	B (Gull wing)	i iooco iii packaye
	Taping	CHS-01TA1	CHS-01TB1	CHS-01TA2	CHS-01TB2	1000 pcs./reel
1	Magazine					
	Plastic bag	CHS-01A1	CHS-01B1			50 pcs./pack
	Taping	CHS-02TA1	CHS-02TB1	CHS-02TA2	CHS-02TB2	500 pcs./reel
2	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 Shape of	Washable type	Pieces in package	
NO. OI DIES	packaging terminals	A (J-hook)	B (Gull wing)	i leces III package
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
	Taping	CHS-04TA	CHS-04TB	500 pcs./reel
4	Magazine	CHS-04MA	CHS-04MB	70 pcs./stick
	Plastic bag	CHS-04A	CHS-04B	50 pcs./pack
	Taping	CHS-06TA	CHS-06TB	500 pcs./reel
6	Magazine	CHS-06MA	CHS-06MB	50 pcs./stick
	Plastic bag	CHS-06A	CHS-06B	50 pcs./pack
	Taping	CHS-08TA	CHS-08TB	500 pcs./reel
8	Magazine	CHS-08MA	CHS-08MB	40 pcs./stick
	Plastic bag	CHS-08A	CHS-08B	50 pcs./pack
	Taping	CHS-10TA	CHS-10TB	500 pcs./reel
10	Magazine	CHS-10MA	CHS-10MB	30 pcs./stick
	Plastic bag	CHS-10A	CHS-10B	50 pcs./pack

 $[\]square$: 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)	

IELECTRICAL 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

IMECHANICAL CHARACTERISTICS

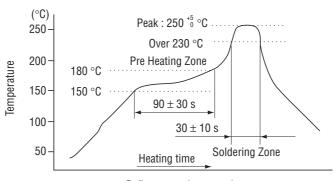
Operating force	0.5 ~ 5 N {0.05 ~ 0.51 kgf}	
Stop strength	10 N {1.02 kgf}, 60 s	
Solderability	245 ± 3 °C, 2 ~ 3 s	
Soldering heat	Reflow: 255 °C (Peak temperature) (Please refer to the profile below)	
Soldering near	Manual soldering : 350 \pm 10 °C, 3 \sim 4 s	
Shear (Adhesion)	5 N {0.51 kgf} 10 s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

{ }: Reference only

IENVIRONMENTAL CHARACTERISTICS

Vibration	Amplitude 1.5 mm or Acceleration 98 m/s², 10-500 Hz, 3 directions for 10 cycles each
Shock	490 m/s², 11 ms 6 directions for 3 times each
Load life	Continuous load 2000 cycles, DC6 \pm 0.5 V, 100 \pm 10 mA
Humidity	–10 ~ 65 °C, Relative humidity 0 ~ 96 %, 24 h for 10 cycles
High temp. exposure	85 °C, 96 h
Low temp. exposure	−40 °C, 96 h
Thermal shock	-40 (0.5 h) ~ 85 °C (0.5 h), 5 cycles

⟨Reflow profile for soldering heat evaluation⟩

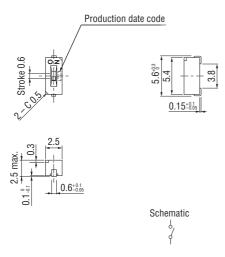


Reflow: two times maximum

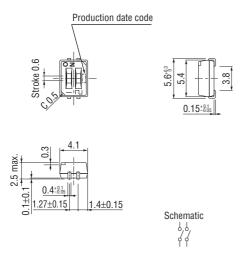
SLIDE SWITCHES (HALF PITCH)

OUTLINE DIMENSIONS

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

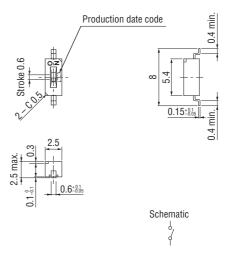


CHS-02A1 Non-washable type (Without seal tape)

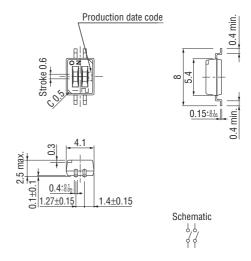


Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

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



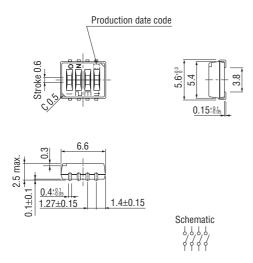
CHS-02B1 Non-washable type (Without seal tape)



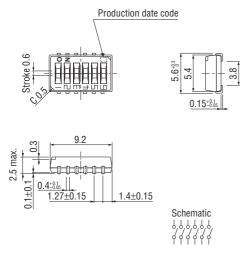
SLIDE SWITCHES (HALF PITCH)

OUTLINE DIMENSIONS

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



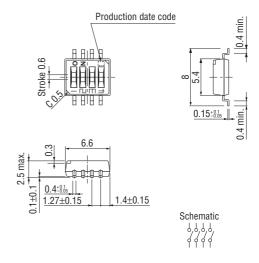
CHS-06A1 Non-washable type (Without seal tape)



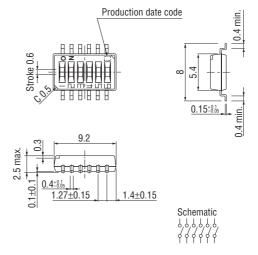
Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

CHS-04B1 Non-washable type (Without seal tape)

(In accordance with EIAJ ED-7402-1)



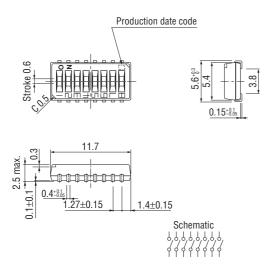
CHS-06B1 Non-washable type (Without seal tape)



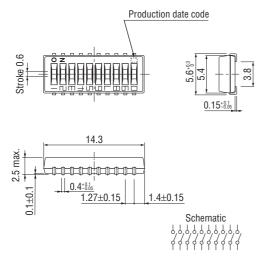
SLIDE SWITCHES (HALF PITCH)

OUTLINE DIMENSIONS

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



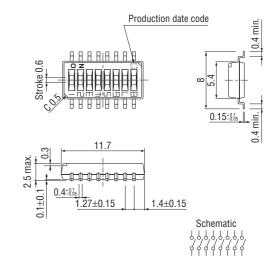
CHS-10A1 Non-washable type (Without seal tape)



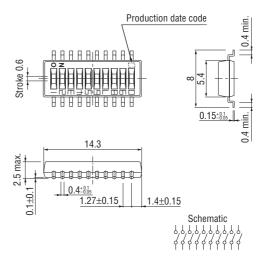
Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

CHS-08B1 Non-washable type (Without seal tape)

(In accordance with EIAJ ED-7402-1)



CHS-10B1 Non-washable type (Without seal tape)



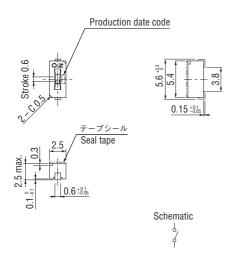
SLIDE SWITCHES (HALF PITCH)

OUTLINE DIMENSIONS

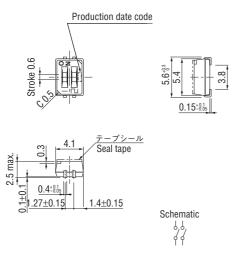
 CHS-01A Washable type (With seal tape)

CHS-01TA2

Non-washable type (With seal tape)

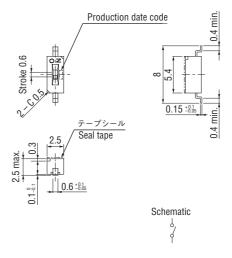


- CHS-02A Washable type (With seal tape)
- CHS-02TA2 Non-washable type (With seal tape)

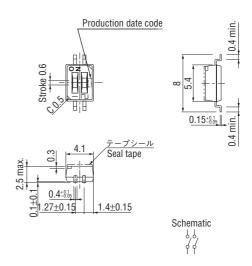


Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

- CHS-01B Washable type (With seal tape)
- CHS-01TB2 Non-washable type (With seal tape)



- CHS-02B Washable type (With seal tape)
- CHS-02TB2 Non-washable type (With seal tape)



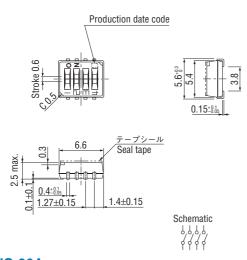
SLIDE SWITCHES (HALF PITCH)

OUTLINE DIMENSIONS

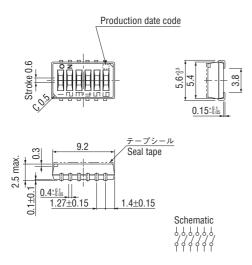
 CHS-04A Washable type (With seal tape)

CHS-04TA2

Non-washable type (With seal tape)



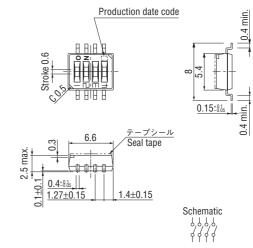
- CHS-06A Washable type (With seal tape)
- CHS-06TA2 Non-washable type (With seal tape)



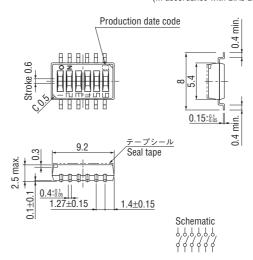
Unless otherwise specified, tolerance: ± 0.3 (Unit: mm)

- CHS-04B Washable type (With seal tape)
- CHS-04TB2 Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)



- CHS-06B Washable type (With seal tape)
- CHS-06TB2 Non-washable type (With seal tape)



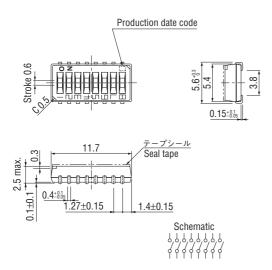
SLIDE SWITCHES (HALF PITCH)

OUTLINE DIMENSIONS

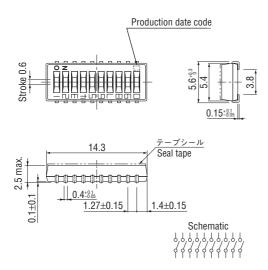
 CHS-08A Washable type (With seal tape)

CHS-08TA2

Non-washable type (With seal tape)



- CHS-10A Washable type (With seal tape)
- CHS-10TA2 Non-washable type (With seal tape)

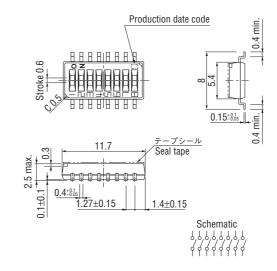


Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

- CHS-08B Washable type (With seal tape)
- CHS-08TB2

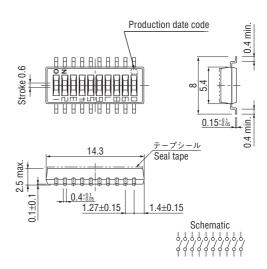
Non-washable type (With seal tape)

(In accordance with EIAJ ED-7402-1)



- CHS-10B Washable type (With seal tape)
- CHS-10TB2

Non-washable type (With seal tape)



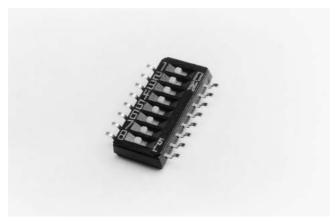
SLIDE SWITCHES (HALF PITCH)

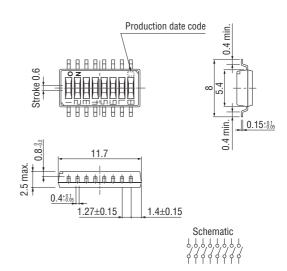
IOUTLINE DIMENSIONS

Unless otherwise specified, tolerance : \pm 0.3 (Unit : mm)

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

● CHS-08D





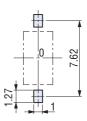
TRECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

1 bit (Unit: mm)

A type

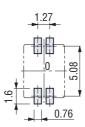


B type

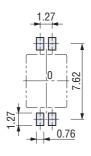


2 bits

A type



B type



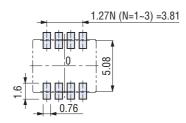
Note) The zero point is the center of mounting.

(Unit: mm)

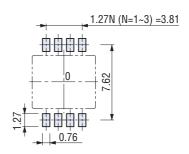
SLIDE SWITCHES (HALF PITCH)

RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

4 bits A type

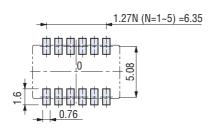


B type

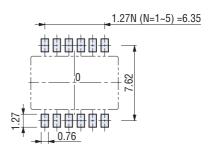


• 6 bits

A type

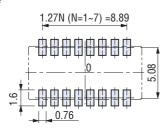


B type

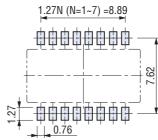


8 bits

A type

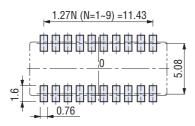


B type

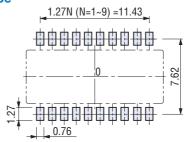


10 bits

A type



B type



Note) The zero point is the center of mounting.

SLIDE SWITCHES (HALF PITCH)

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.

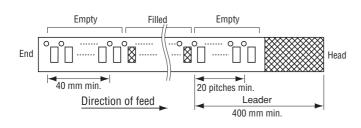
Maximum number of consecutive missing pieces=2 Leader length and reel dimension are shown in the diagrams below:

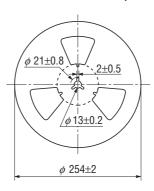
Embossed tape dimensions

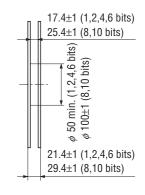
Reel dimensions

(Unit: mm)

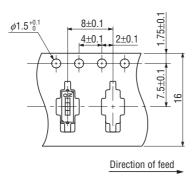
(Conforms to JIS C 0806-3) (In accordance with EIAJ ET-7200A)



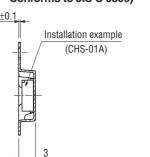




1 bit

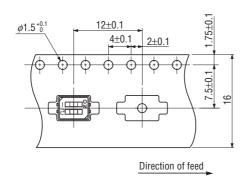


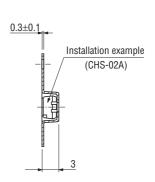




(Unit: mm)

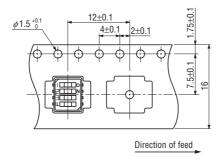
2 bits





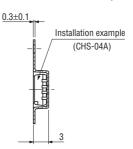
SLIDE SWITCHES (HALF PITCH)

4 bits

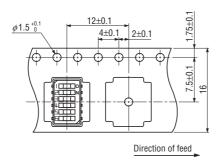


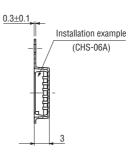
(Conforms to JIS C 0806)

(Unit: mm)

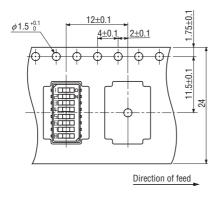


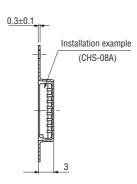
6 bits



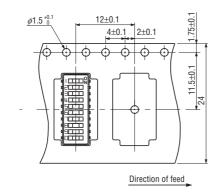


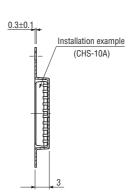
8 bits





● 10 bits







<Magazine packaging specifications>

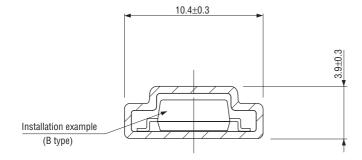
• Packing quantities of magazines are different depending on the bit number of the switches. Please order the multiple numbers of the specific packing quantities. (e.g. 70 pcs., 140 pcs., 210 pcs., etc., in case of 4 bits version)

Pieces in package: 4 bits, 70pcs./stick

6 bits, 50pcs./stick 8 bits, 40pcs./stick 10 bits, 30pcs./stick

Magazine dimensions

(Unit: mm)



※The magazine is common to A and B terminal pin.

Magazine length : $500 \pm 2 \text{ mm long}$

<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.