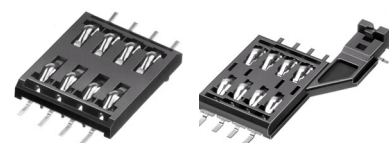


# IC card connectors SCN-1308 / -1608 type

## Features

- ◇ Conforms to ISO-7816.
- ◇ Provision for suction space allows for automatic mounting.
- ◇ Can be supplied in embossed taping for automatic mounting.
- ◇ Long life of 300,000 cycles.
- ◇ A detection switch is the high reliability by self cleaning structure.



Actual size

## Applications

- ◇ Electronic accounting system terminals (electronic purse, outstanding balance indicator, etc.)
- ◇ Network computers, mobile communications terminals, POS terminals, etc.

## Products Line

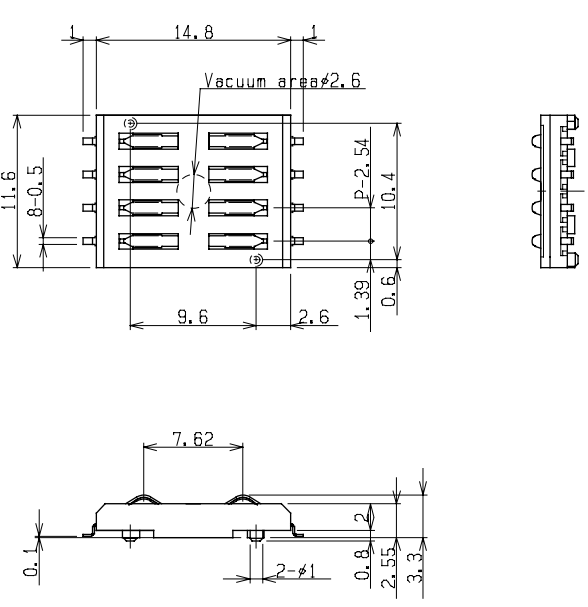
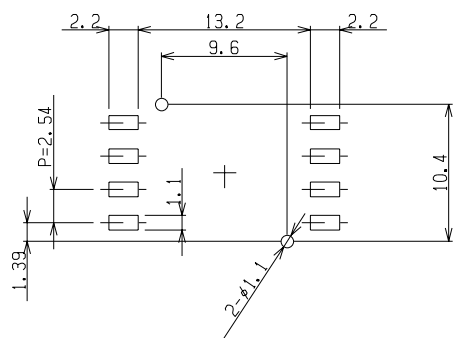
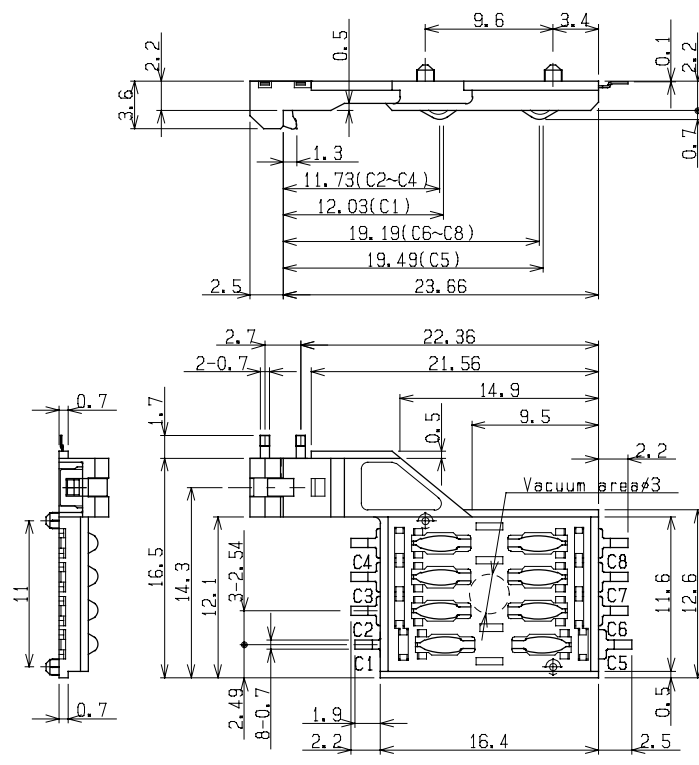
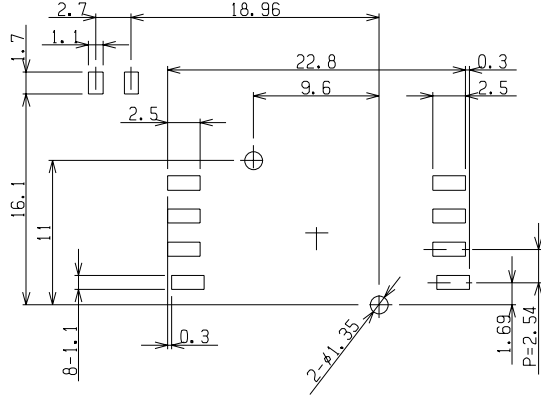
No	Products No	No. of contacts	Housing height	Existence of switch	Circuit diagram
1	SCN-1308-2	8 Pins	2.55 mm	Without	—
2	SCN-1608AU	8 Pins	2.20 mm	With	Normally open

## Typical Specifications

Items	SCN-1308-2	SCN-1608AU	
		Contact part	Switch part
Applicable card	ISO-7816	ISO-7816	—
Rating	0.01 mA to 1 A 5 V DC	0.01 to 200 mA 5 V DC	0.1 to 10 mA 5 V DC
Contact resistance	40 milliohm	100 milliohm	1 ohm
Insulation resistance	100 megohm min. 250 V DC	50 megohm min. 100 V DC	50 megohm min. 100 V DC
Withstanding voltage	250 V AC for 1 min.	100 V AC for 1 min.	100 V AC for 1 min.
Life	500,000 cycles	300,000 cycles	300,000 cycles

Dimensions

Unit : mm

No	Style	P.C.B reference Land Dimensions (TOP VIEW)
1	<p>SCN-1308-2</p>  <p>Technical drawing of SCN-1308-2 showing top and side views with dimensions. The top view shows a rectangular component with a total width of 14.8 mm and a height of 10.4 mm. It features a central vacuum area of 2.6 mm. Dimensions include 11.6 mm for the main body width, 8-0.5 mm for the central section, 9.6 mm for the distance between the central section and the right edge, 1.39 mm for the distance from the left edge to the start of the central section, 0.6 mm for the distance from the end of the central section to the right edge, and P=2.54 mm for the pitch of the pins. The side view shows a height of 3.3 mm, a top thickness of 0.1 mm, a bottom thickness of 2.55 mm, and a central width of 7.62 mm.</p>	 <p>P.C.B reference Land Dimensions (TOP VIEW) for SCN-1308-2. The drawing shows the component's footprint on a PCB with a total width of 13.2 mm and a height of 10.4 mm. Dimensions include 2.2 mm for the distance from the left edge to the first pin, 9.6 mm for the distance between the first and last pins, and 2.2 mm for the distance from the last pin to the right edge. The pitch between pins is P=2.54 mm. A diagonal dimension of 2-φ1.1 mm is shown at the bottom right corner.</p>
2	<p>SCN-1608AU</p>  <p>Technical drawing of SCN-1608AU showing top and side views with dimensions. The top view shows a rectangular component with a total width of 23.66 mm and a height of 12.6 mm. It features a central vacuum area of 3 mm. Dimensions include 3.6 mm for the top-left corner, 2.2 mm for the top-left offset, 0.5 mm for the top-right offset, 9.6 mm for the distance between the two main sections, and 3.4 mm for the distance from the right edge to the end of the second section. Pin dimensions are listed as 1.3 mm, 11.73 (C2-C4), 12.03 (C1), 19.19 (C6-C8), and 19.49 (C5). The side view shows a height of 11 mm, a top thickness of 0.7 mm, and a bottom thickness of 2.49 mm. The main body width is 16.5 mm, with a central section of 12.1 mm and a distance of 3-2.54 mm from the left edge to the start of the central section. The distance from the left edge to the start of the main body is 8-0.7 mm, and the distance from the end of the main body to the right edge is 2.2 mm. The total width of the main body is 16.4 mm, and the distance from the left edge to the end of the main body is 2.5 mm.</p>	 <p>P.C.B reference Land Dimensions (TOP VIEW) for SCN-1608AU. The drawing shows the component's footprint on a PCB with a total width of 18.96 mm and a height of 16.1 mm. Dimensions include 2.7 mm for the distance from the left edge to the first pin, 1.7 mm for the top-left offset, 22.8 mm for the distance between the first and last pins, and 9.6 mm for the distance between the two main sections. The pitch between pins is P=2.54 mm. A diagonal dimension of 2-φ1.35 mm is shown at the bottom right corner. The distance from the left edge to the first pin is 8-1.1 mm, and the distance from the last pin to the right edge is 0.3 mm. The distance from the left edge to the start of the main body is 1.1 mm, and the distance from the end of the main body to the right edge is 2.5 mm.</p>

## □Notes

1. The appearance and specifications of the product may be modified without prior notice to improve its performance.
2. This catalog shows only outline specifications. When using the product, please obtain formal specifications.
3. Please see exhibit [Cautions in Using Connectors ].
4. Note that if the load is applied to the terminals during soldering, they might suffer deformation and defects in electrical performance.
5. Use of water-soluble soldering flux shall be avoided because it may cause corrosion of the switch.
6. Care shall be taken not to attach flux on plastic portion.
7. This connector is not washable.
8. Please confirm the performance on actual operation by simulation with actual environment environments for high reliability.