

Connector for SD Memory Card

SCDA Series



Compact low-profile type with highly reliable contact structure.

For
SD Memory
Card

For
microSD™
Card

For
SIM Card
8pins

For
Memory
Stick Micro™

Combine Type

For
W-SIM



Typical Specifications

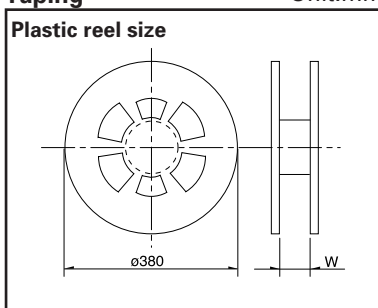
Items		Specifications
Structure	Applicable media	SD Memory Card/ MultiMediaCard™
	Mounting type	Surface mounting type
	Mounting style	Standard mount/Reverse mount
	Media ejection structure	Push-push type
Performance	Operating temperature range	−25°C to +60°C
	Voltage proof	100V AC 1minute
	Insulation resistance (Initial)	1,000MΩ min.
	Contact resistance (Initial)	100mΩ max.
	Connector contacts	500mΩ max.
Insertion and removal cycle		10,000cycles

Product Line

Media ejection structure	Mounting style	Features	Stand-off (mm)	Packing system	Product No.	Drawing No.
Push-push type	Standard mount	Inner tail, card eject stroke 5mm	0	Taping	SCDA9A0400	1
		Inner tail, card eject stroke 8mm			SCDA8A0201	2
		Outer tail, card eject stroke 8mm	1.5		SCDA7A0101	3
			1.8		SCDA7A0200	4
			0		SCDA7A1201	5
	Reverse mount	Outer tail	0		SCDAAA0100	6
			1.8		SCDAAA0601	7

Packing Specifications

Taping Unit:mm



Product No.	Number of packages (pcs.)			Reel width W (mm)	Tape width (mm)	Export package measurements (mm)
	1 reel	1 case /Japan	1 case /export packing			
SCDA7A0101	400	800	1,600	45.5	44	403 × 403 × 249
SCDA7A0200	250	500	1,000			
SCDA7A1201	300	600	1,200			
SCDA8A0201	400	800	1,600			
SCDA9A0400	500	1,000	2,000			
SCDAAA0100	500	1,000	2,000			
SCDAAA0601	300	600	1,200			

Note

Please place purchase orders per minimum order unit N (integer).

Refer to P.558 for soldering conditions.



Dimensions

Standard mount (Inner tail)

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the mounting face side)
1	Stand-off 0mm Card eject stroke 5mm Circuit Diagram for Detect SW	Recommended P.C.B layout (Mounting face side) LAND NO PART AREA NO PATTERN AREA NO PATTERN EXPOSE AREA
2	Stand-off 0mm Card eject stroke 8mm Circuit Diagram for Detect SW	Land area Pattern prohibition area

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Automotive
Use

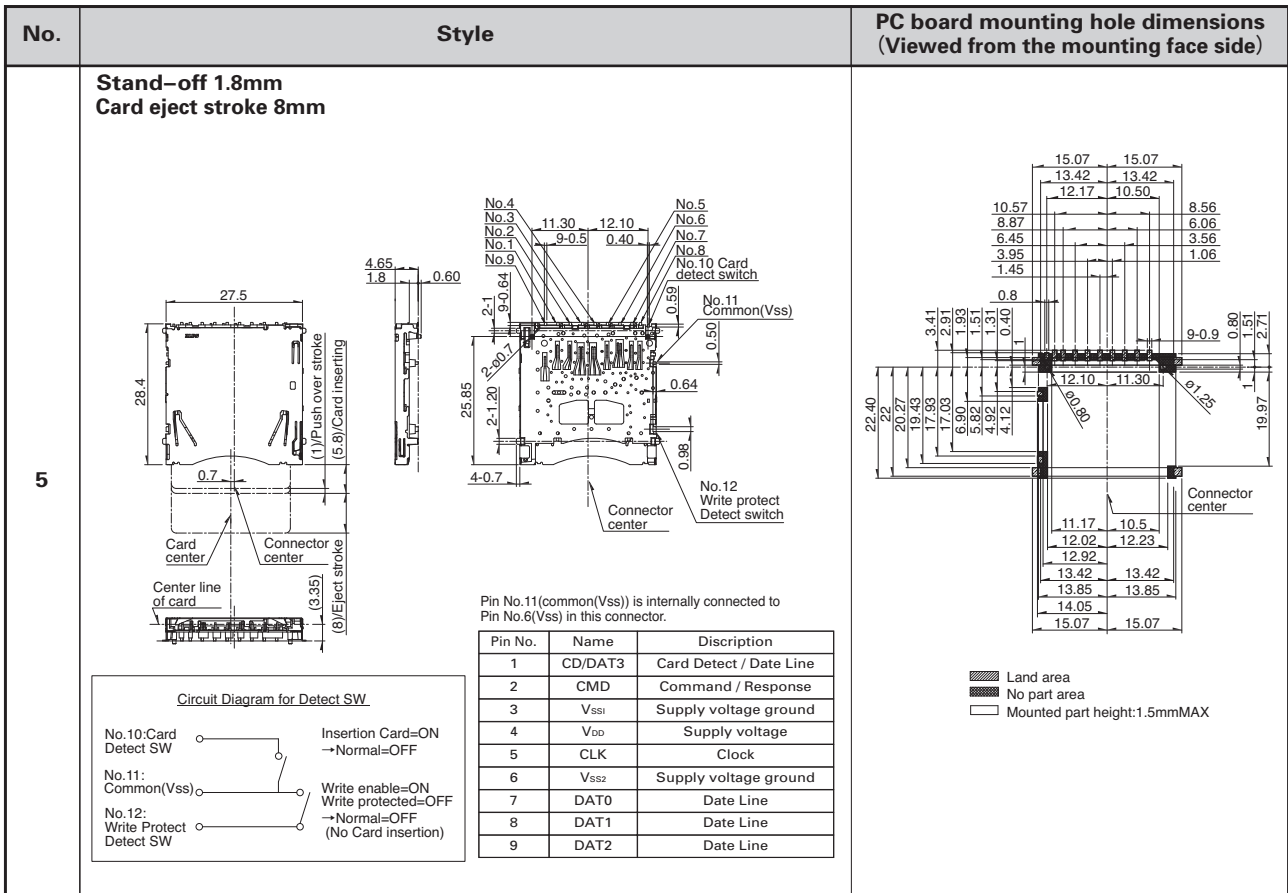
■ Dimensions
Standard mount

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the mounting face side)
3	Stand-off 0mm Card eject stroke 8mm Stand-off 0mm Card eject stroke 8mm Connector center Card center Center line of card (1) Push over travel (8) Eject stroke (1.6) Circuit Diagram for Detect Switch No.10 : Card Detect Switch No.11 : Common (Vss) No.12 : Write Protect Detect Switch Insertion Card=ON → Normal=OFF Write enable=ON Write Protected=OFF → Normal=OFF (No Card Insertion)	Land area Pattern prohibition area Recommended GND pattern area
4	Stand-off 1.5mm Card eject stroke 8mm Stand-off 1.5mm Card eject stroke 8mm Connector center Card center Center line of card (1) Push over travel (5.8) Card inserting (8) Eject stroke (3.05) Circuit Diagram for Detect Switch No.10 : Card Detect Switch No.11 : Common (Vss) No.12 : Write Protect Detect Switch Insertion Card=ON → Normal=OFF Write enable=ON Write Protected=OFF → Normal=OFF (No Card Insertion)	Land area No part area Recommended GND pattern area

Dimensions Reverse mount

Unit:mm



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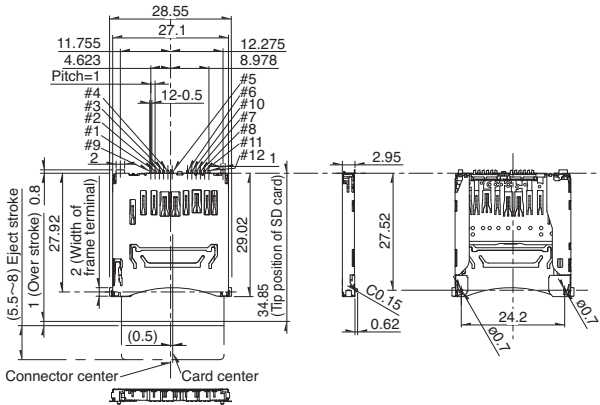
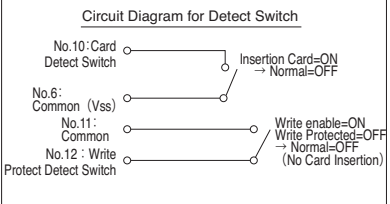
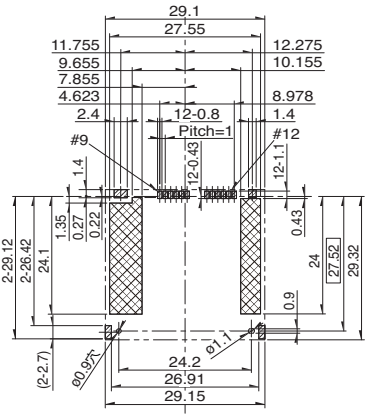
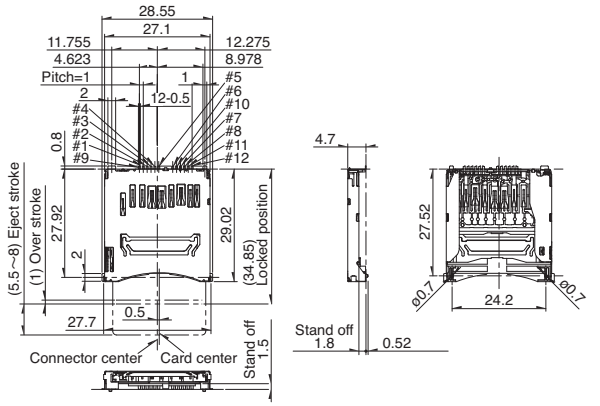
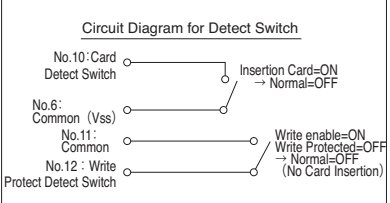
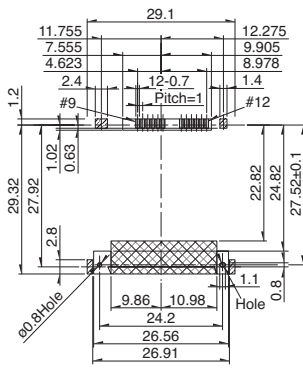


Automotive
Use

Dimensions
Reverse mount

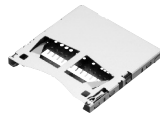
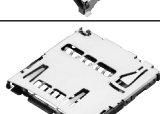
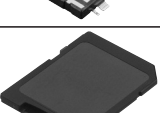
Unit:mm

- For SD Memory Card
- For microSD™ Card
- For SIM Card 8pins
- For Memory Stick Micro™
- Combine Type
- For W-SIM

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6	Stand-off 0mm Card eject stroke 8mm  Circuit Diagram for Detect Switch <table><thead><tr><th>Pin No.</th><th>Name</th><th>Discription</th></tr></thead><tbody><tr><td>1</td><td>CD/DAT3</td><td>Card Detect / Date Line</td></tr><tr><td>2</td><td>CMD</td><td>Command / Response</td></tr><tr><td>3</td><td>VSS1</td><td>Supply voltage ground</td></tr><tr><td>4</td><td>VDD</td><td>Supply voltage</td></tr><tr><td>5</td><td>CLK</td><td>Clock</td></tr><tr><td>6</td><td>VSS2</td><td>Supply voltage ground</td></tr><tr><td>7</td><td>DAT0</td><td>Date Line</td></tr><tr><td>8</td><td>DAT1</td><td>Date Line</td></tr><tr><td>9</td><td>DAT2</td><td>Date Line</td></tr></tbody></table>	Pin No.	Name	Discription	1	CD/DAT3	Card Detect / Date Line	2	CMD	Command / Response	3	VSS1	Supply voltage ground	4	VDD	Supply voltage	5	CLK	Clock	6	VSS2	Supply voltage ground	7	DAT0	Date Line	8	DAT1	Date Line	9	DAT2	Date Line	
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List of Varieties

Applicable media	Product No.	Photo	Media ejection structure	Mounting style	Features	Stand-off (mm)	Auto motive use	Page	
SD Memory Card Multi-MediaCard™	SCDA9A0400		Push-push type	Standard mount	Inner tail Card eject stroke 5mm	0	—	527	
	SCDA8A0201				Inner tail Card eject stroke 8mm				
	SCDA7A0101				Card eject stroke 8mm	1.5	○		
	SCDA7A0200			1.8					
	SCDA7A1201								
	SCDAAA0100			Reverse mount	Outer tail	0	—		
	SCDAAA0601					1.8			
microSD™ Card	SCHA4B0100			Standard mount	With switch	0	○	532	
	SCHA4B0400				With switches and fly-out protection.		—		
	SCHA5B0200			Reverse mount	With switch		○		
	SCHB1A0205		Manual insertion/removal	Standard mount	Hinge cover type Without switch			—	535
	SCHB1B0100				Hinge cover type With switch				
	SCHD1A0101				Header type				537
	SCHD3A0100								
	SCHH1D0100			—		Adapter			

Note

○marks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C.

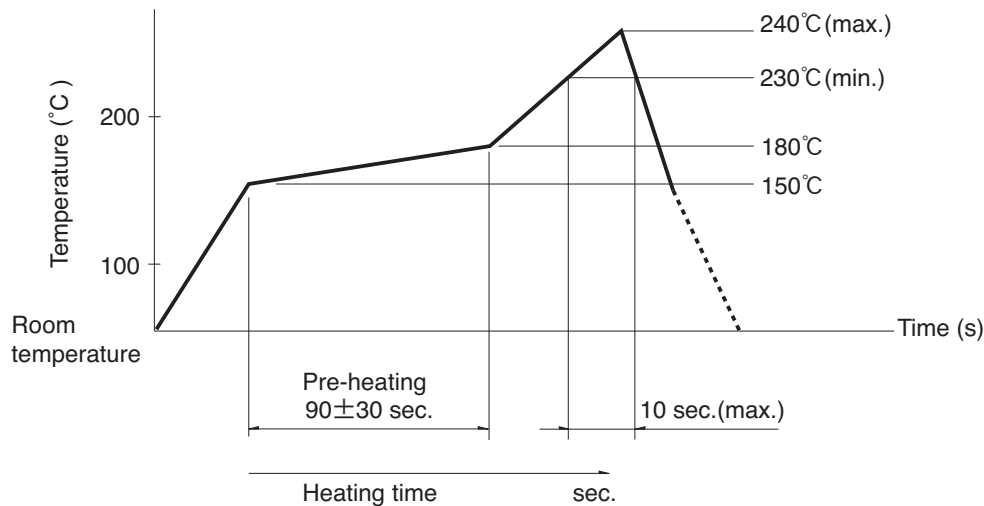
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Soldering Conditions

Example of Reflow Soldering Condition (Reference)

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 ϕ CA (K) or CC (T) at soldering portion.
3. Temperature profile



Please refer to each product's specification sheet to confirm temperature profile.

Cautions for using this product

1.Connector handling precautions

- (1) Safeguard the connector assembly against flux penetration from its top side.
- (2) This product is designed on the assumption that they will not be washed after soldering.

If you wash it, it may cause deterioration of mechanically and electrically.

If washing is necessary, please make contact with us beforehand.

2.When soldering terminals, there is a danger that load placed on the terminals may cause rattle, deformation or electrical degradation to occur depending on the conditions.

Caution is therefore required.

3.When soldering, do not use water soluble flux because this may corrode the product.

4.regarding the setting of reflow conditions, please confirm them with the actual mass production conditions.

5.As P.W.B. warping may alter characteristics, please take this into consideration when designing pattern and layout.

6.Please do not solder at the ejector pushing position.

7.To prevent contact disturbance by the sulfuration or oxidation of the contact and terminal, and deterioration of solder ability by thin film on the terminal, please note following.

- Storage in the atmosphere of high temperature at 60 degrees or more, high humidity, corrosive gases such as sulfur or chlorine gas, and excessive piling up of the carton boxes shall be avoided.
- Connectors shall be stored as the package not opened and in the normal temperature and normal humidity, and the connectors shall be used preferably within 3 months, at least within 6 months.
- When the connectors are stored after opening the package, the connectors shall be sealed with a polyethylene bag etc. and stored in dark and cool place, avoiding direct sunlight. Bag etc. and stored in dark and cool place, avoiding direct sunlight. The connectors shall be used as soon as possible.

8.Don't push or hold down the metal cover of the connector, otherwise there is a possibility that the card would not be ejected or influences to other function.

9.Please attention following items to prevent connector from miss operation, such as bounding caused by ON/OFF switching and chattering by vibration.

- Repeated reading/writing.
- Establish delay time-recommended 400msec min.
- Establish CR accumulation circuit.

10.This product does not operate normally when the card which does not conform to the specification is used occasionally.

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