

Dimensions
Standard mount

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the mounting face side)																				
1	<p>With switch</p> <p>Circuit Diagram for Detect Switch</p> <p>Detect switch Inserting Card=ON Common →Normal=OFF</p> <table border="1"> <thead> <tr> <th>PIN</th> <th>SD Mode</th> <th>PIN</th> <th>SD Mode</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>DAT2</td> <td>#5</td> <td>CLK</td> </tr> <tr> <td>#2</td> <td>DAT3/CD</td> <td>#6</td> <td>V_{SS}</td> </tr> <tr> <td>#3</td> <td>CMD</td> <td>#7</td> <td>DAT0</td> </tr> <tr> <td>#4</td> <td>V_{DD}</td> <td>#8</td> <td>DAT1</td> </tr> </tbody> </table> <p>Pin assignments</p>	PIN	SD Mode	PIN	SD Mode	#1	DAT2	#5	CLK	#2	DAT3/CD	#6	V _{SS}	#3	CMD	#7	DAT0	#4	V _{DD}	#8	DAT1	<p>Legend: Pattern Area NO Pattern Area</p>
PIN	SD Mode	PIN	SD Mode																			
#1	DAT2	#5	CLK																			
#2	DAT3/CD	#6	V _{SS}																			
#3	CMD	#7	DAT0																			
#4	V _{DD}	#8	DAT1																			
2	<p>With switches and fly-out protection.</p> <p>Circuit Diagram for Detect Switch</p> <p>Detect SW Inserting Card=ON Common →Normal=OFF</p> <table border="1"> <thead> <tr> <th>PIN</th> <th>SD Mode</th> <th>PIN</th> <th>SD Mode</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>DAT2</td> <td>#5</td> <td>CLK</td> </tr> <tr> <td>#2</td> <td>DAT3/CD</td> <td>#6</td> <td>V_{SS}</td> </tr> <tr> <td>#3</td> <td>CMD</td> <td>#7</td> <td>DAT0</td> </tr> <tr> <td>#4</td> <td>V_{DD}</td> <td>#8</td> <td>DAT1</td> </tr> </tbody> </table> <p>Pin assignments</p>	PIN	SD Mode	PIN	SD Mode	#1	DAT2	#5	CLK	#2	DAT3/CD	#6	V _{SS}	#3	CMD	#7	DAT0	#4	V _{DD}	#8	DAT1	<p>Legend: Pattern area No pattern exposed area No pattern area</p>
PIN	SD Mode	PIN	SD Mode																			
#1	DAT2	#5	CLK																			
#2	DAT3/CD	#6	V _{SS}																			
#3	CMD	#7	DAT0																			
#4	V _{DD}	#8	DAT1																			

For SD Memory Card

For microSD™ Card

For SIM Card 8pins

For W-SIM

For Memory Stick Micro™

For Memory Stick™

Combine Type

For Compact Flash™

For CMOS Camera Module

Dimensions
Reverse mount

Unit:mm

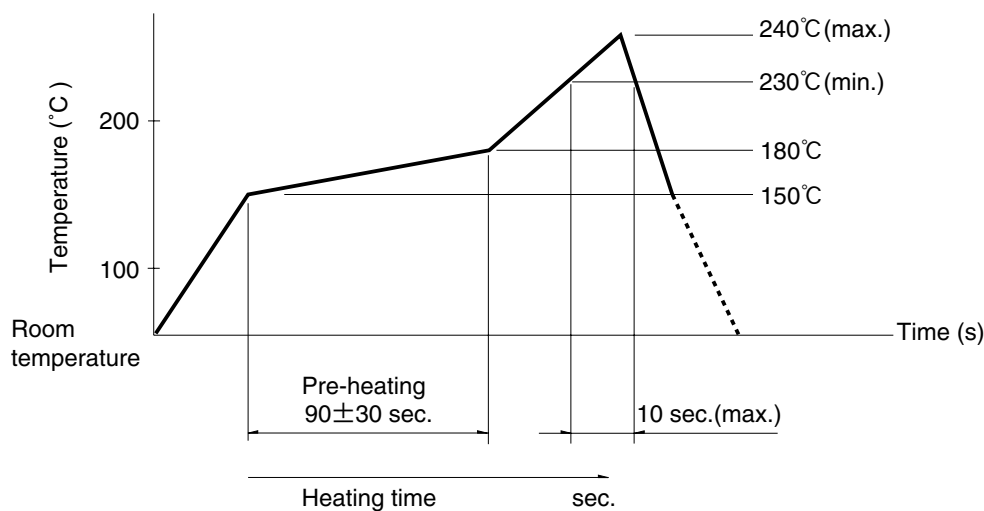
- For SD Memory Card
- For microSD™ Card
- For SIM Card 8pins
- For W-SIM
- For Memory Stick Micro™
- For Memory Stick™
- Combine Type
- For Compact Flash™
- For CMOS Camera Module

No.	Style	PC board mounting hole dimensions (Viewed from the mounting face side)																				
3	<p>Slim type with switch</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Circuit Diafram for Detect Switch</p> <p>Detect Switch Inserting Card=ON Common →Normal=OFF</p> </div> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Pin assignments</caption> <thead> <tr> <th>PIN</th> <th>SD Mode</th> <th>PIN</th> <th>SD Mode</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>DAT2</td> <td>#5</td> <td>CLK</td> </tr> <tr> <td>#2</td> <td>DAT3/CD</td> <td>#6</td> <td>V_{SS}</td> </tr> <tr> <td>#3</td> <td>CMD</td> <td>#7</td> <td>DAT0</td> </tr> <tr> <td>#4</td> <td>V_{DD}</td> <td>#8</td> <td>DAT1</td> </tr> </tbody> </table>	PIN	SD Mode	PIN	SD Mode	#1	DAT2	#5	CLK	#2	DAT3/CD	#6	V _{SS}	#3	CMD	#7	DAT0	#4	V _{DD}	#8	DAT1	
PIN	SD Mode	PIN	SD Mode																			
#1	DAT2	#5	CLK																			
#2	DAT3/CD	#6	V _{SS}																			
#3	CMD	#7	DAT0																			
#4	V _{DD}	#8	DAT1																			

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).
3. Temperature profile (Surface of products).



Cautions for using this product

1. 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.
2. Avoid use of water-soluble soldering flux, since it may corrode the product.
3. Check and conform to reflow soldering requirements under actual mass production conditions.
4. PC board warping may alter the characteristics. Please take this into consideration when designing patterns and layout.
5. The card specifications are provided by the above manufactures. Products by other manufactures may not be compliant with these specifications and are subject to change without prior notice.

For SD Memory Card

For microSD™ Card

For SIM Card 8pins

For W-SIM

For Memory Stick Micro™

For Memory Stick™

Combine Type

For Compact Flash™

For CMOS Camera Module

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Alps Alpine:](#)

[SCHA4B0400](#) [SCHA5B0200](#) [SCHA4B0100](#) [SCHA1A0101](#)