

Combine Type Connector (for SD Memory Card, MultiMediaCard™, Memory Stick™)

SCDB Series



Push-push type featuring contact protection function with less impact to media cards.

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



Typical Specifications

Items		Specifications	
Structure	Applicable media	SD Memory Card, MultiMediaCard™, Memory Stick™	
	Mounting type	Surface mounting type	
	Mounting style	Standard mount/ Reverse mount	
	Media ejection structure	Push-push type	
Performance	Operating temperature range	-25 to +60	
	Voltage proof	500V AC 1minute	
	Insulation resistance (Initial)	1,000M Ω min.	
	Contact resistance (Initial)	Connector contacts	100m Ω max.
		Detection switch	500m Ω max.
Insertion and removal cycle		10,000cycles (SD Memory Card) 12,000cycles (Memory Stick™)	

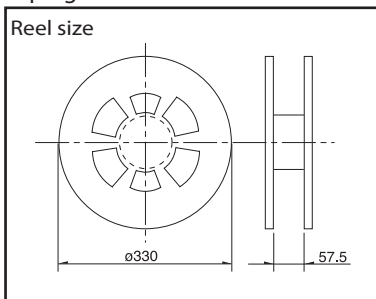
Product Line

Media ejection structure	Mounting system	Feature	Stand-off (mm)	Packing system	Product No.	Drawing No.
Push-push type	Standard mount	With boss	0	Taping	SCDB3A0202	1
	Reverse mount				SCDB4A0101	2

Packing Specifications

Taping

Unit:mm



Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case /Japan	1 case /export packing		
300	600	1,200	56	403 × 403 × 297



Tel.: +49 89 89979764
Fax: +49 89 89979765

Email: info@dst-gmbh.de
Internet: www.dst-gmbh.de

ALPS



Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the mounting face side)																																																																																												
1	<p>Standard mount</p> <p>Standard mount connector dimensions showing top, side, and front views. Dimensions include overall width (29.5), card center offset (13.23), and various pin offsets. Pinout table lists 22 pins for SD, MemoryStick, and SD/MMC.</p> <table border="1"> <thead> <tr> <th>Number</th> <th>FOR</th> <th>Pin assign</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>SD</td><td>#9</td><td>SD-DAT2</td></tr> <tr><td>2</td><td>MemoryStick</td><td>#10</td><td>MS-VSS</td></tr> <tr><td>3</td><td>SD/MMC</td><td>#1</td><td>SD-CD/SD-DAT3 MMC-RSV</td></tr> <tr><td>4</td><td>MemoryStick</td><td>#9</td><td>MS-VCC</td></tr> <tr><td>5</td><td>MemoryStick</td><td>#8</td><td>MS-SCLK</td></tr> <tr><td>6</td><td>SD/MMC</td><td>#2</td><td>SD-CMD MMC-CMD</td></tr> <tr><td>7</td><td>MemoryStick</td><td>#7</td><td>SD-DAT3</td></tr> <tr><td>8</td><td>MemoryStick</td><td>#6</td><td>MS-INS</td></tr> <tr><td>9</td><td>SD/MMC</td><td>#3</td><td>SD-VSS MMC-VSS1</td></tr> <tr><td>10</td><td>MemoryStick</td><td>#5</td><td>MS-DATA2</td></tr> <tr><td>11</td><td>SD/MMC</td><td>#4</td><td>SD-VDD MMC-VDD</td></tr> <tr><td>12</td><td>MemoryStick</td><td>#4</td><td>MS-DATA0</td></tr> <tr><td>13</td><td>MemoryStick</td><td>#3</td><td>MS-DATA1</td></tr> <tr><td>14</td><td>SD/MMC</td><td>#5</td><td>SD-CLK MMC-CLK</td></tr> <tr><td>15</td><td>MemoryStick</td><td>#2</td><td>MS-BS</td></tr> <tr><td>16</td><td>MemoryStick</td><td>#1</td><td>MS-VSS</td></tr> <tr><td>17</td><td>SD/MMC</td><td>#6</td><td>MMC-DAT MMC-VSS2</td></tr> <tr><td>18</td><td>SD/MMC</td><td>#7</td><td>SD-DAT0 MMC-DAT</td></tr> <tr><td>19</td><td>SD</td><td>#8</td><td>SD-DAT1</td></tr> <tr><td>20</td><td>SD</td><td>CD</td><td>SD-CD</td></tr> <tr><td>21</td><td>SD</td><td>GND</td><td>SD-GND</td></tr> <tr><td>22</td><td>SD</td><td>SW.WP</td><td>SD-WP(SW)</td></tr> </tbody> </table>	Number	FOR	Pin assign	Function	1	SD	#9	SD-DAT2	2	MemoryStick	#10	MS-VSS	3	SD/MMC	#1	SD-CD/SD-DAT3 MMC-RSV	4	MemoryStick	#9	MS-VCC	5	MemoryStick	#8	MS-SCLK	6	SD/MMC	#2	SD-CMD MMC-CMD	7	MemoryStick	#7	SD-DAT3	8	MemoryStick	#6	MS-INS	9	SD/MMC	#3	SD-VSS MMC-VSS1	10	MemoryStick	#5	MS-DATA2	11	SD/MMC	#4	SD-VDD MMC-VDD	12	MemoryStick	#4	MS-DATA0	13	MemoryStick	#3	MS-DATA1	14	SD/MMC	#5	SD-CLK MMC-CLK	15	MemoryStick	#2	MS-BS	16	MemoryStick	#1	MS-VSS	17	SD/MMC	#6	MMC-DAT MMC-VSS2	18	SD/MMC	#7	SD-DAT0 MMC-DAT	19	SD	#8	SD-DAT1	20	SD	CD	SD-CD	21	SD	GND	SD-GND	22	SD	SW.WP	SD-WP(SW)	<p>PC board mounting hole dimensions for standard mount. Shows a 30.1mm wide board with a 29.3mm wide connector area. Mounting holes are 1.55mm diameter, spaced 1.175mm from the center. Dimensions for card center and connector center are also shown.</p>
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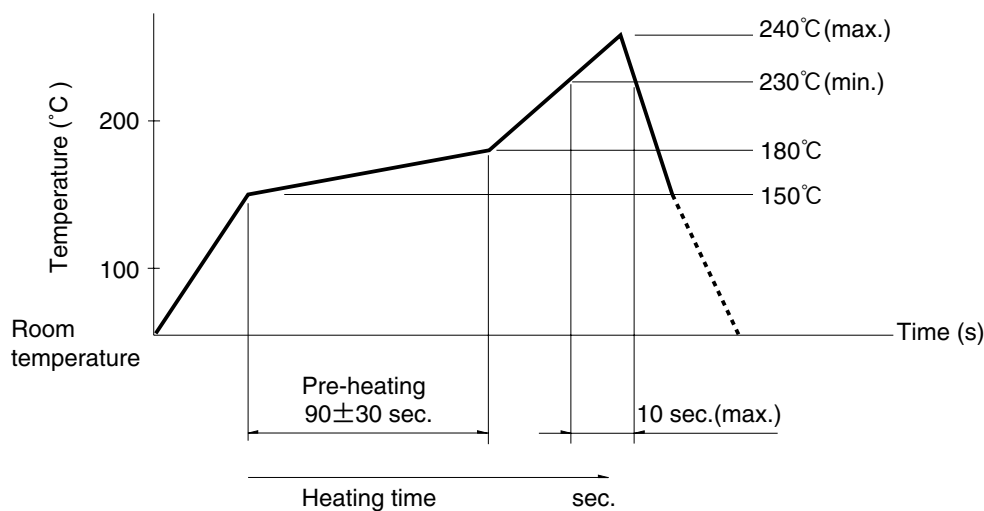
For Compact Flash™

For CMOS Camera Module

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.

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