

The DD1 series of connectors are single-line rectangular I/O connectors with 0.5mm pitch stroke conforming to USB2.0 Standard.

Features

- Enhanced twisting resistance at mating/ unmating through equipping a guide rail
 Secure ground connection for EMI prevention
- Conforms to transmission specified in USB2.0 Standard

■PB free

Receptacle

- Occupied volume on chassis was considered at design and small package was achieved.
- Available in standard and reverse mounting type to respond to various mounting situations.
- Hot-plug structure
- Available on embossed tape for automatic mounting

Cradle

- ■Available in two types. Angle type, which expands cradle designing capacity, and tilted type, slanted at a 75 degree angle to the board.
- ■13.8mm depth was achieved, which enables minimizing the occupied area on PCB
- ■Alignment guide structure: guide range of 1.0mm min. (receptacle \leftrightarrow cradle)
- Angle type available on embossed tape for automatic mounting. Tilted type available in exclusive tray.

Plug

- ■Side-lock type
- Simple part structure enables simple wire termination.
- Standard cable diameter 5.0mm. Cables with other diameters can also be applied.

General Specifications

■No. of contacts : 30 pos.

Dielectric withstanding voltage :

Contact resistance:

Insulation resistance:

- Rated current: for signal 0.5A for power 1.0A
- 50m ohm max. (initial) nding voltage : ■Rated voltage: AC 30Vr.m.s DC500V per minute nce: -25 Deg. C to +75 Deg. C
- 1,000M ohm min. (initial) Mating cycle: 10,000 times

Materials and Finishes

Receptacle

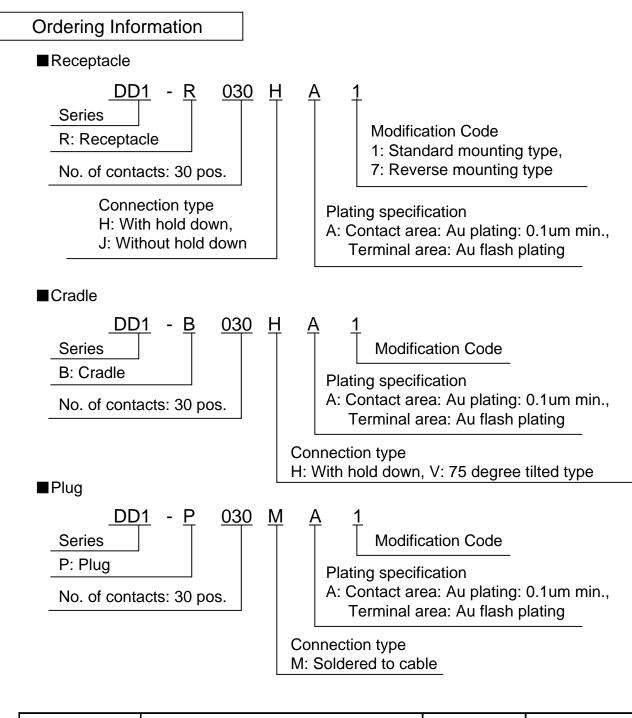
Components	Materials/ Finishes		
Contact	Copper alloy/ Contact: Au plating over Ni		
	Terminal: Au flash plating over Ni		
Insulator	Glass filled nylon resin		
Shell	Stainless steel/ Sn plating over Ni		

Cradle

Components	Materials/ Finishes			
Contact	Copper alloy/ Contact: Au plating over Ni			
	Terminal: Au flash plating over Ni			
Insulator	Glass filled nylon resin			
Shell	Stainless steel/ Main frame: Ni plating			
	Through-hole: Sn plating over Ni			
Through-hole	Copper alloy/ Main frame: Ni plating			
Plate	Through-hole: Sn plating over Ni			

Plug

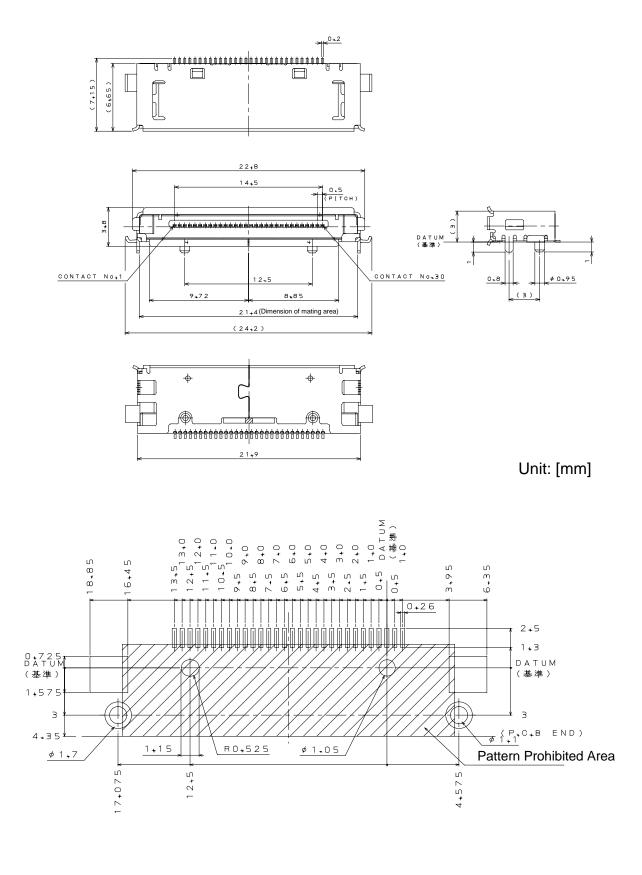
Materials/ Finishes		
Copper alloy/ Contact: Au plating over Ni		
Terminal: Au flash plating over Ni		
Glass filled nylon resin		
Stainless steel/ Ni plating		
Glass filled polycarbonate/ Color: Black		
Stainless steel/ Ni plating		
Copper alloy/ Ni plating		
PVC/ Color: Black		



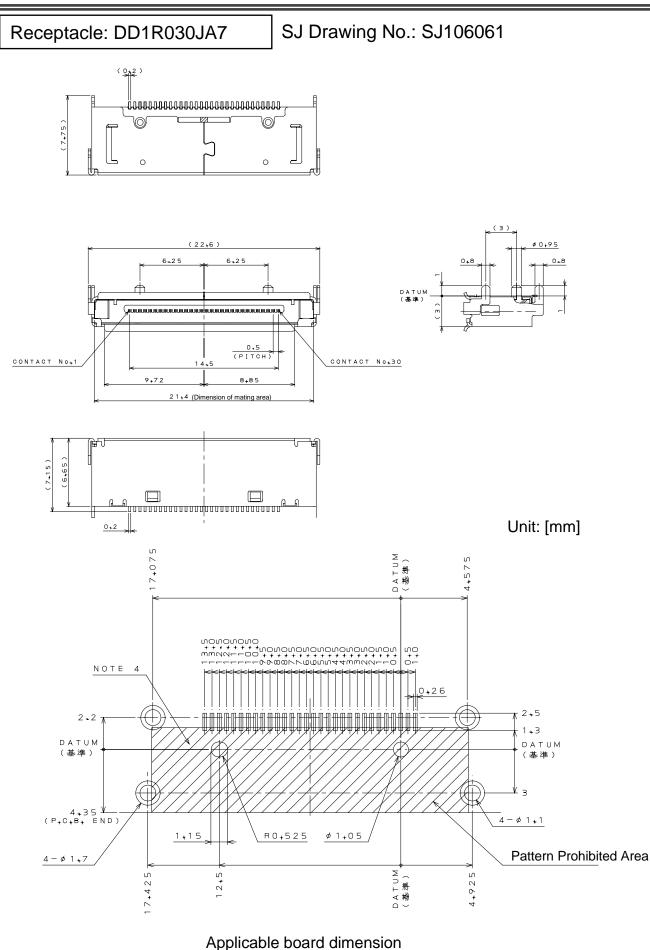
Part Number	Board anchoring method			SIDrowing	Specification
	Hold-down	Through-hole	Boss	S5 Drawing	Specification
DD1R030HA1	2	2	2	SJ100601	
DD1R030JA7	-	4	2	SJ106061	
DD1B030HA1	2	4	2	SJ100602	JACS-3285
DD1B030VA1	-	6	-	SJ102068	
DD1P030MA1	-	-	-	SJ100603	

Receptacle: DD1R030HA1

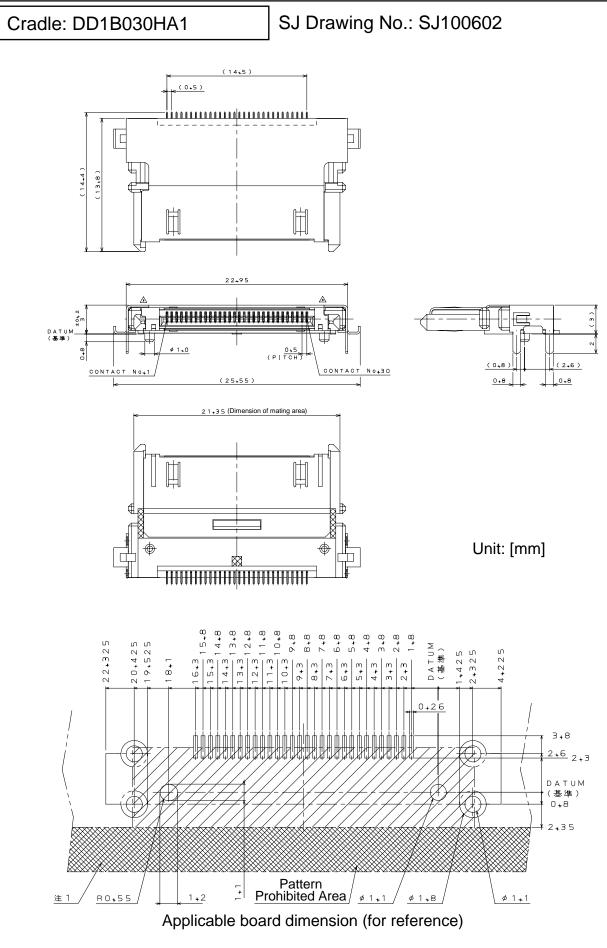
SJ Drawing No.: SJ100601

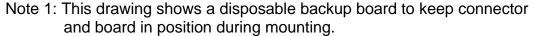


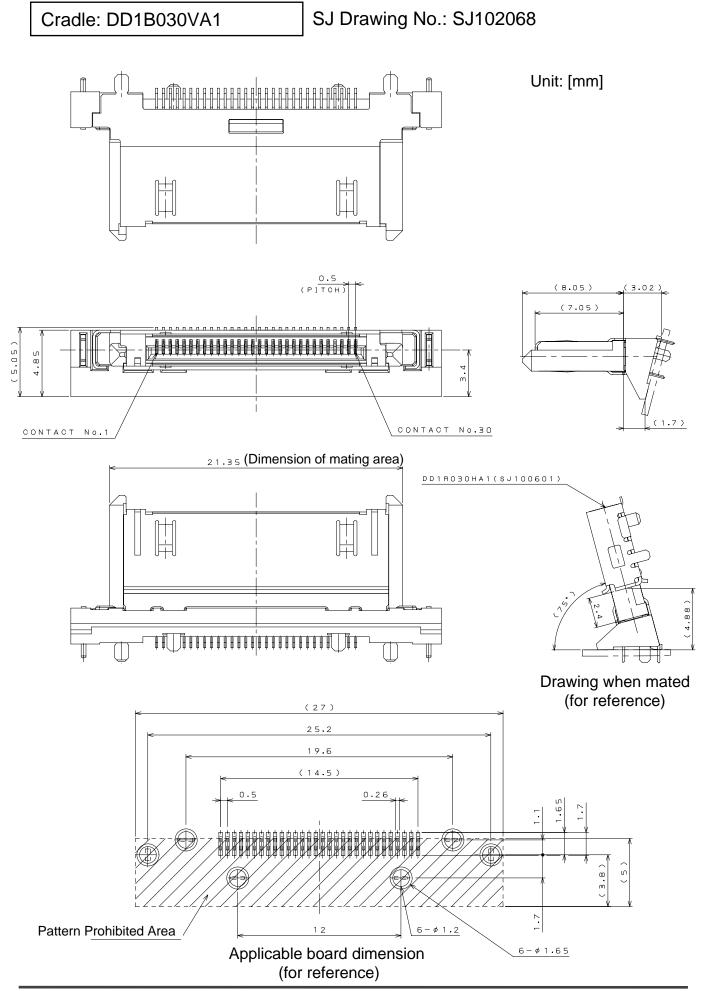
Applicable board dimension (for reference)



(for reference)

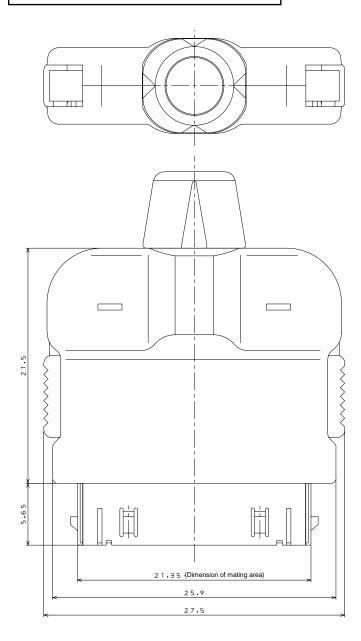


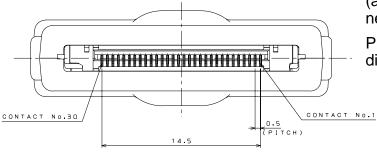




Unit: [mm]

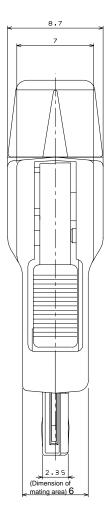
Plug: DD1P030MA1





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SJ Drawing No.: SJ100603

Note) The plug is shipped in plug only. Exclusive crimp tool CT150-6-RH07 (applicable cable diameter 5.0 mm) is needed for wire connection and assembly.

Please contact us for other cable diameters and further information.

Notice: Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: computers, office machines, measuring devices,

telecommunication devices (terminals, mobile devices), AV devices, household applications, FA devices, etc.

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