

[Plug]

[Receptacle]

Tilted type

[Cradle]

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 insertion and removal through equipping a guide rail
- Secure around connection for EMI prevention
- Conforms to transmission specified in USB2.0 Standard

#### Receptacle

- Compact design, minimized mounting area: 24.20 mm width, 6.65 mm depth and 3.00 mm height.
- ■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.
- Angle type has minimized mounting area of 13.8mm depth (terminal not included)
- Alignment guide structure: guide range of 1.0mm min. (receptacle  $\leftrightarrow$  cradle) for easy handling.
- Angle type available on embossed tape for automatic mounting. Tilted type available in exclusive tray.

#### Plug

- ■Side-lock type
- ■Simple and reduced components for assembly ease
- Standard cable diameter 5.0mm. Cables with other diameters can also be used.

General Specifications	
<ul> <li>No. of contacts : 30 pos.</li> <li>Contact resistance: 50m ohm max. (</li> </ul>	■Rated current: for signal 0.5A for power 1.0A (initial)
Dielectric withstanding voltage :	■Rated voltage: AC 30Vr.m.s
DČ500V per n	
■Insulation resistance:	-25 Deg. C to +75 Deg. C
1,000M ohm min. (	(initial) Mating cycle: 10,000 times

# Materials and Finishes

# Receptacle

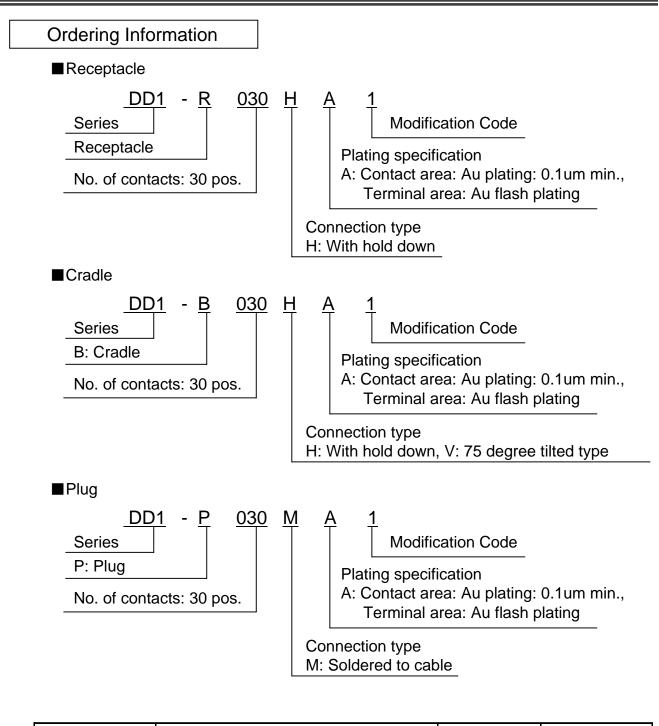
Components	Materials/ Finishes		
Contact	Copper alloy/ Contact: Au plating over Ni		
	Terminal: Au flash plating over Ni		
Insulator	Glass filled nylon resin		
Shell	Stainless steel/ Sn plating over Ni		

## Cradle

Components	Materials/ Finishes		
Contact	Copper alloy/ Contact: Au plating over Ni		
Contact	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

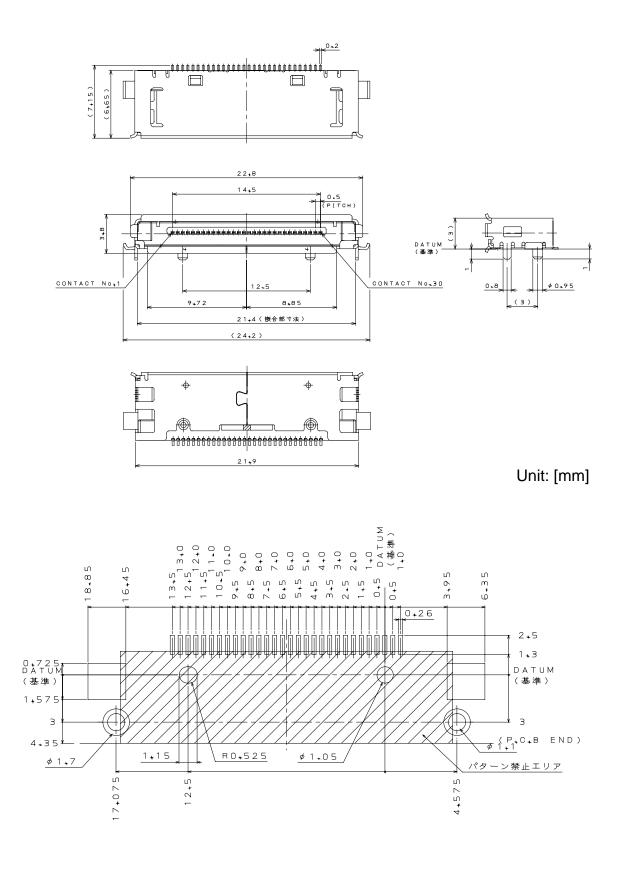
Materials/ Finishes		
Copper alloy/ Contact: Au plating over Ni		
Terminal: Au flash plating over Ni		
Glass filled nylon resin		
Stainless steel/ Ni plating		
Glass filled polycarbonate/ Color: Black		
Stainless steel/ Ni plating		
Copper alloy/ Ni plating		
PVC/ Color: Black		



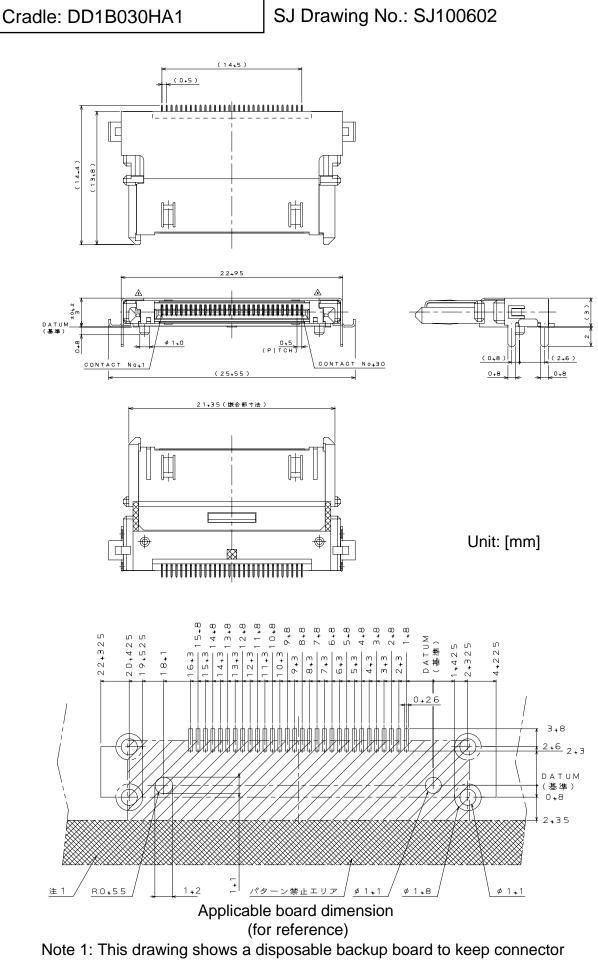
Part Number	Board anchoring method		SIDrowing	Specification	
	Hold-down	Through-hole	Boss	SJ Drawing	Specification
DD1R030HA1	2	2	2	SJ100601	JACS-3285
DD1B030HA1	2	4	2	SJ100602	
DD1B030VA1	-	6	-	SJ102068	
DD1P030MA1	-	-	-	SJ100603	

# Receptacle: DD1R030HA1

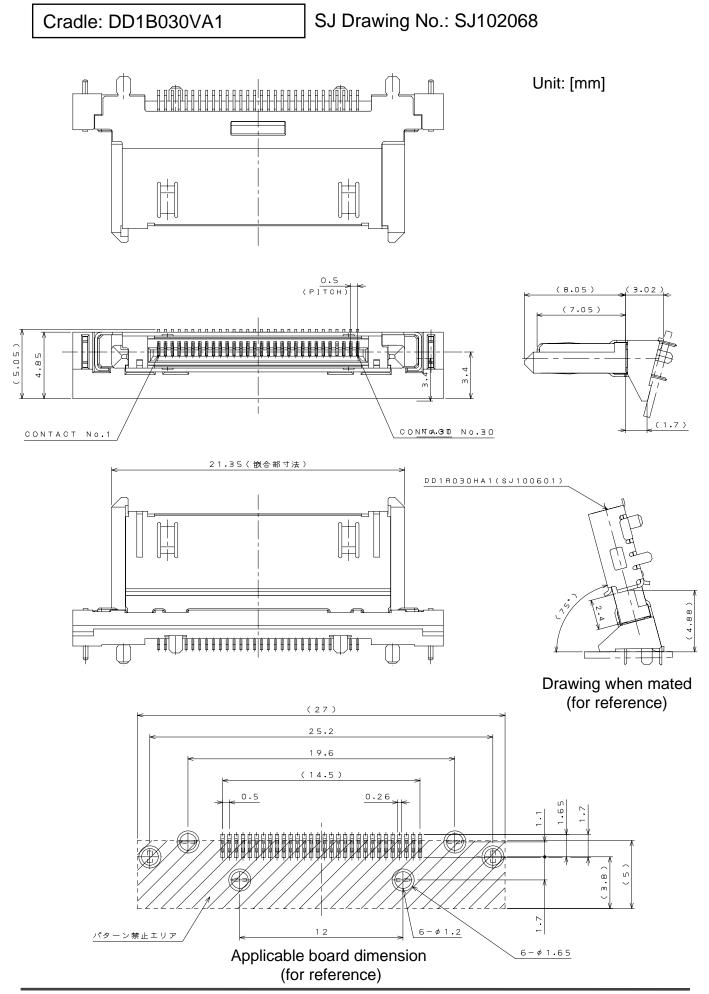
SJ Drawing No.: SJ100601



Applicable board dimension (for reference)

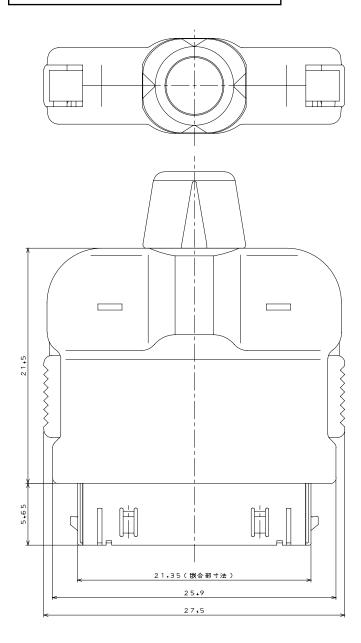


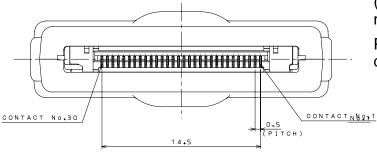
and board in position during mounting.



Unit: [mm]

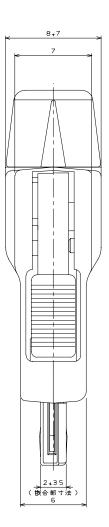
## Plug: DD1P030MA1





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SJ Drawing No.: SJ100603

Note) The plug is shipped in components. 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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