



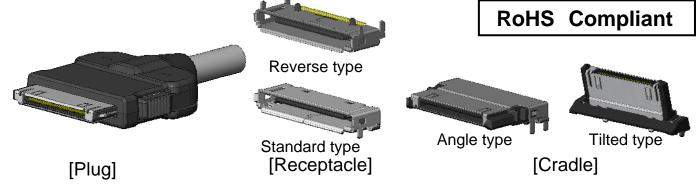
0.5mm pitch stroke connector conforming to USB2.0 Standard

CONNECTOR

MB-0111-5

November 2006

DD1 Series



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 ↔ 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.

■Contact resistance:

50m ohm max. (initial)

■ Dielectric withstanding voltage:

DC500V per minute

■Insulation resistance:

1,000M ohm min. (initial)

■Rated current: for signal 0.5A

for power 1.0A

■Rated voltage: AC 30Vr.m.s

■Operating temperature:

-25 Deg. C to +75 Deg. C

■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

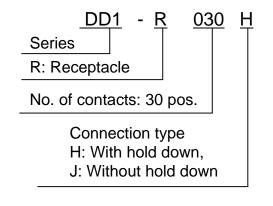
Components	Materials/ Finishes			
Contact	Copper alloy/ Contact: Au plating over Ni Terminal: Au flash plating over Ni			
Insulator	Glass filled nylon resin			
Shell	Stainless steel/ Main frame: Ni plating			
	Through-hole: Sn plating over Ni			
Through-hole	Copper alloy/ Main frame: Ni plating			
Plate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

Plug

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/ Ni plating			
Hood	Glass filled polycarbonate/ Color: Black			
Lock Spring	Stainless steel/ Ni plating			
Clamp Barrel	Copper alloy/ Ni plating			
Bushing	PVC/ Color: Black			

Ordering Information

■ Receptacle



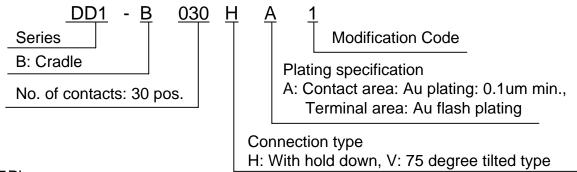
Modification Code

1: Standard mounting type,7: Reverse mounting type

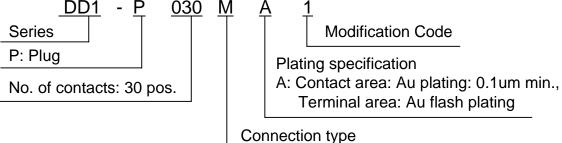
Plating specification

A: Contact area: Au plating: 0.1um min., Terminal area: Au flash plating

■ Cradle



■Plug

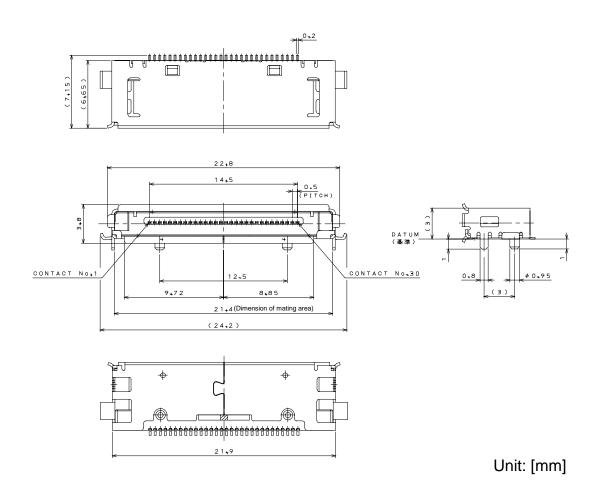


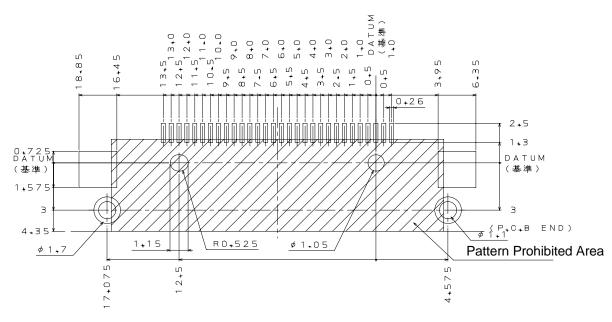
M: Soldered to cable

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

Receptacle: DD1R030HA1

SJ Drawing No.: SJ100601

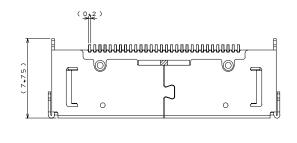


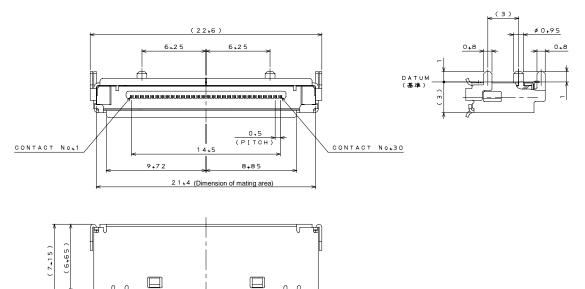


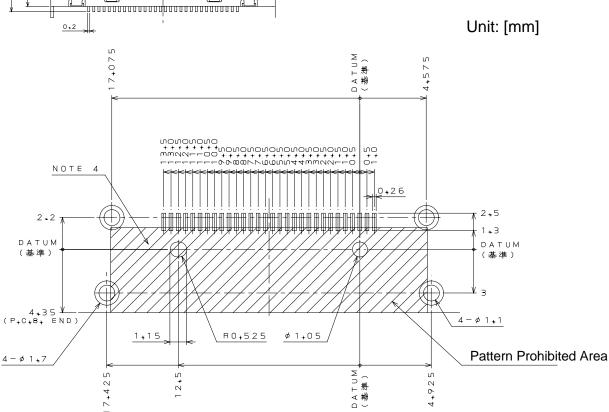
Applicable board dimension (for reference)

Receptacle: DD1R030JA7

SJ Drawing No.: SJ106061



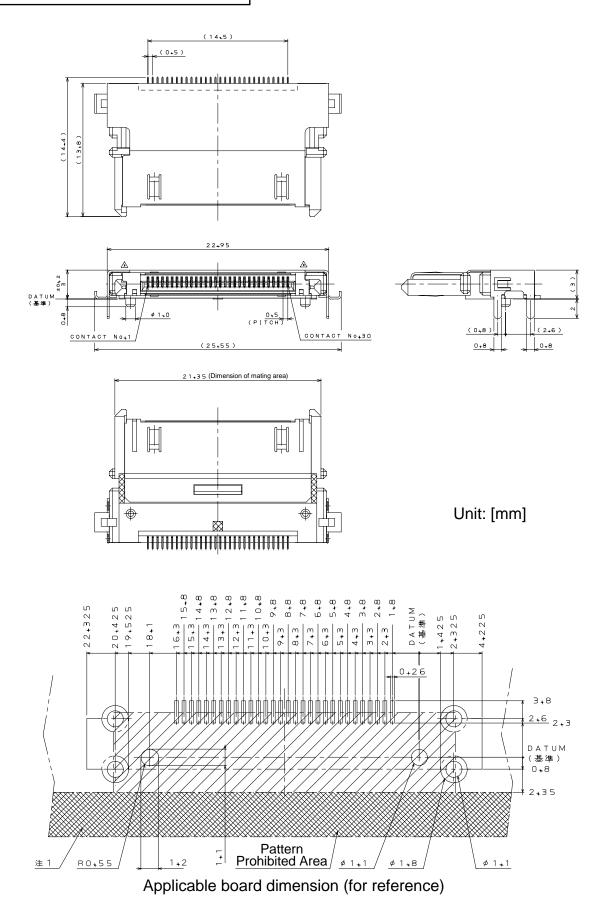




Applicable board dimension (for reference)

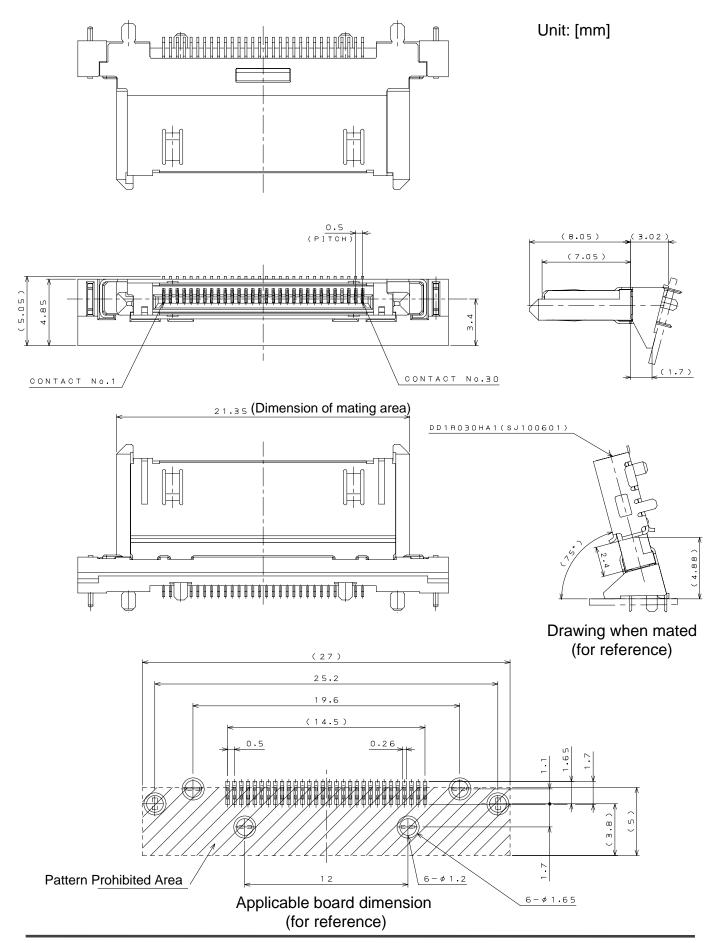
Cradle: DD1B030HA1

SJ Drawing No.: SJ100602



Note 1: This drawing shows a disposable backup board to keep connector and board in position during mounting.

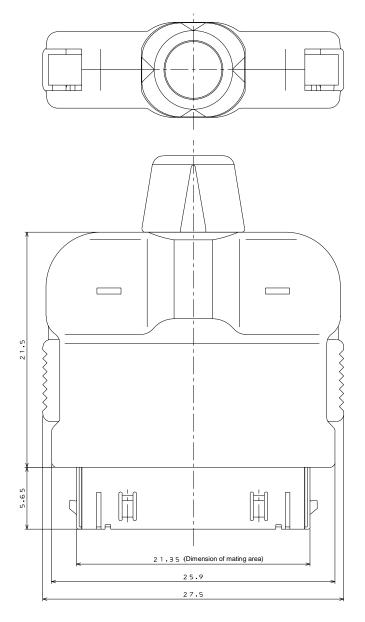
Cradle: DD1B030VA1 SJ Drawing No.: SJ102068

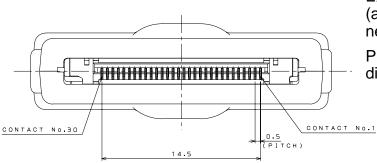


Plug: DD1P030MA1

SJ Drawing No.: SJ100603

Unit: [mm]

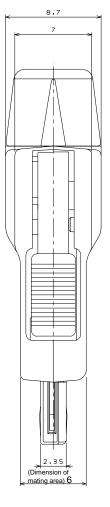




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Note) The plug is shipped in plug only. Exclusive crimp tool CT150-6-RH07 (applicable cable diameter 5.0 mm) is needed for wire connection and assembly.

Please contact us for other cable diameters and further information.

Motice: 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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