



0.5mm pitch stroke conforming to USB2.0 Standard

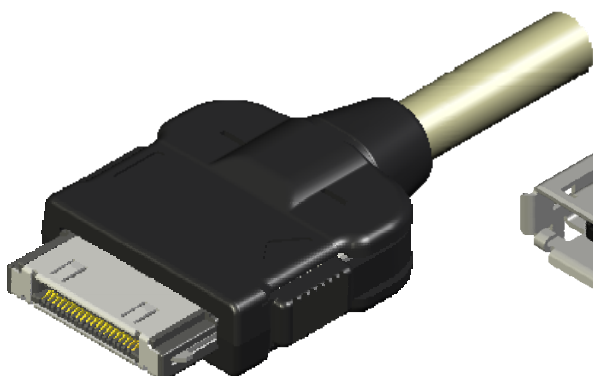
CONNECTOR

MB-0112-3

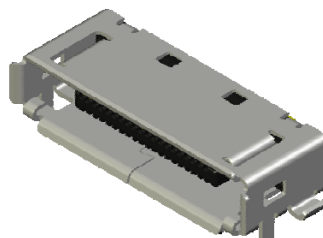
July 2007

## DD2 Series

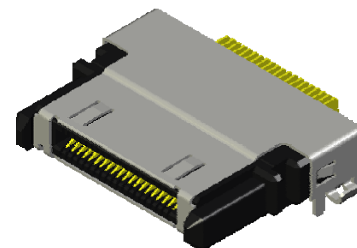
**RoHS Compliant**



[Plug]



[Receptacle]



[Cradle]

The DD2 series of connectors are double-line rectangular 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 ground connection for EMI prevention
- Conforms to transmission specified in USB2.0 Standard

### **Receptacle**

- Compact design, minimized mounting area: 19.25 width, 8.6 depth and 3.8mm height.
- Hot-plug structure
- Available on embossed tape for automatic mounting

### **Cradle**

- Minimized mounting area 13.8mm depth (terminal not included)
- 1.0mm alignment guide structure: guide range of 1.0mm min. (receptacle ↔ cradle)
- Available on embossed tape for automatic mounting

### **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**

- |  |  |
|--|--|
| ■ No. of contacts : 40 pos.                              | ■ Rated current: for signal 0.5A<br>for power 1.0A   |
| ■ Contact resistance:<br>50m ohm max. (initial)          | ■ Rated voltage: AC 30Vr.m.s                         |
| ■ Dielectric withstanding voltage :<br>DC300V per minute | ■ Operating temperature:<br>-25 Deg. C to +75 Deg. C |
| ■ Insulation resistance:<br>1,000M ohm min. (initial)    | ■ Mating cycle: 10,000 times                         |

Materials and Finishes
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### Receptacle

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

### Cradle

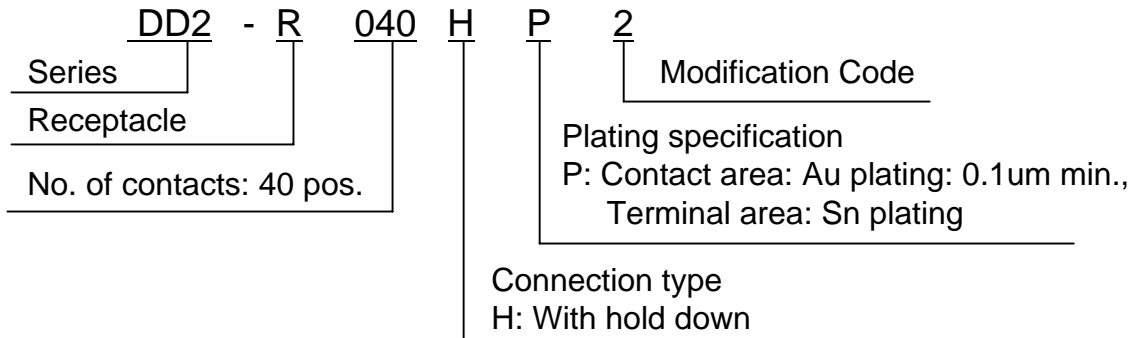
Components	Materials/ Finishes
Contact	Copper alloy/ Contact: Au plating over Ni Terminal: Au flash plating over Ni
Insulator	Glass filled nylon resin
Shell	Stainless steel/ Main frame: Ni plating Through-hole: Sn plating over Ni

### Plug

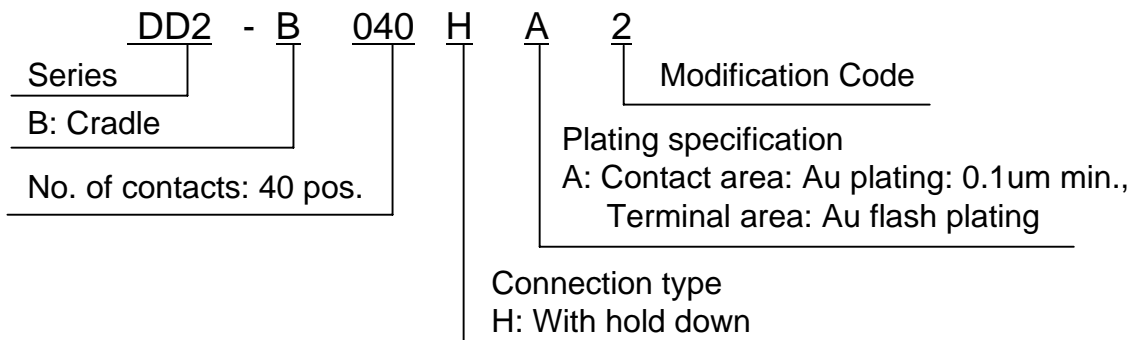
Components	Materials/ Finishes
Contact	Copper alloy/ Contact: Au plating over Ni Terminal: Au flash plating over Ni
Insulator	Glass filled nylon resin
Shell	Stainless steel/ Ni plating
Hood	Glass filled polycarbonate/ Color: Black
Lock Spring	Stainless steel/ Ni plating
Clamp Barrel	Brass/ Ni plating
Bushing	PVC/ Color: Black

Ordering Information

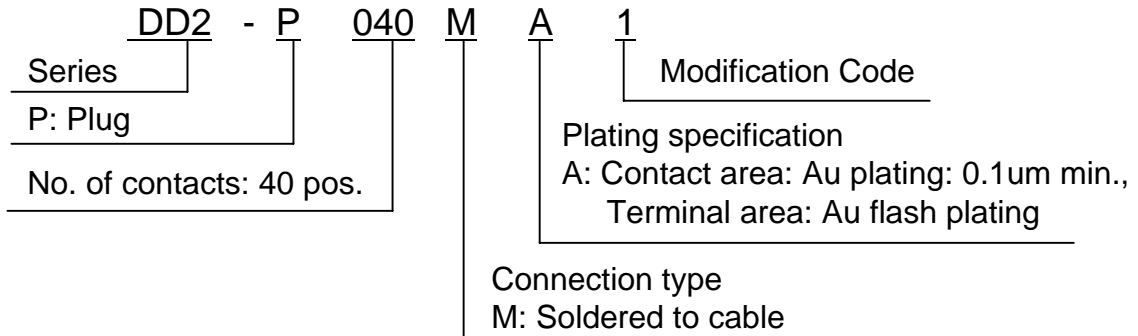
■ Receptacle



■ Cradle



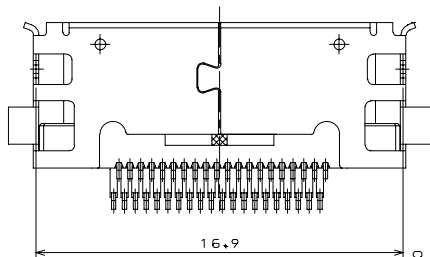
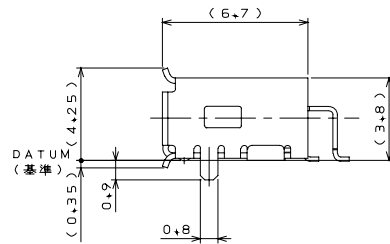
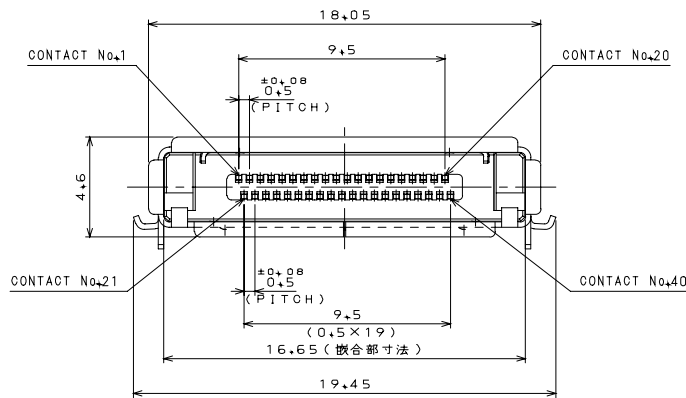
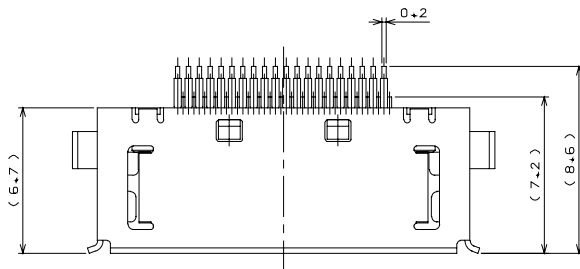
■ Plug



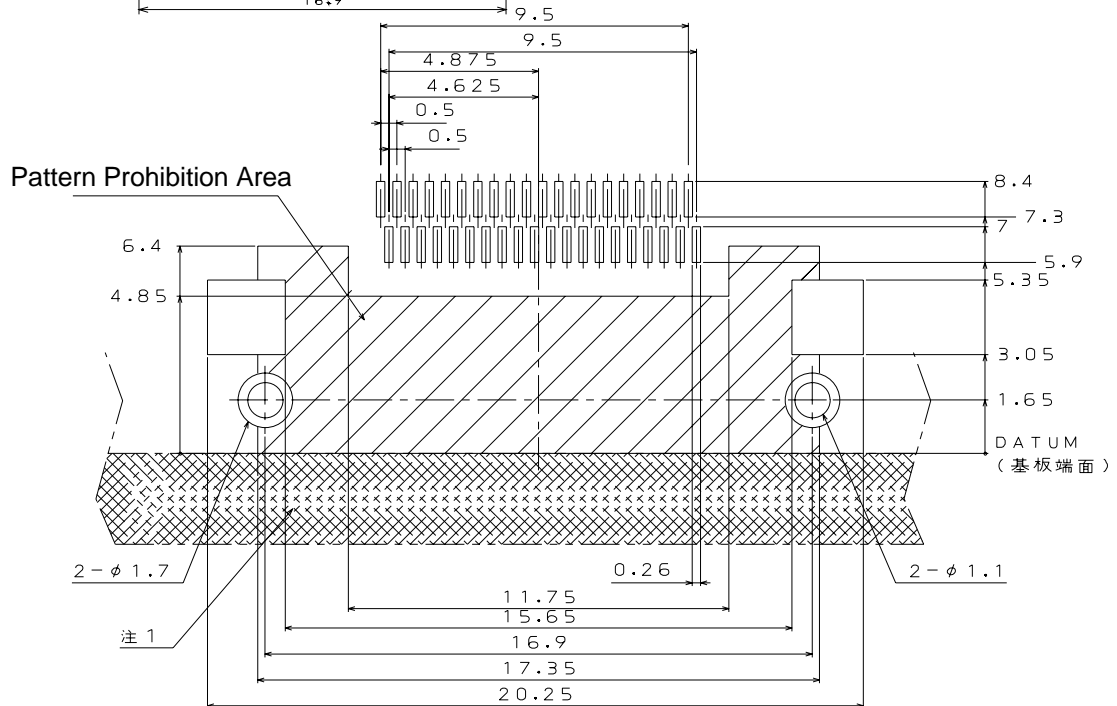
Part Number	Board anchoring method		SJ Drawing	Specification
	Hold-down	Through-hole		
DD2R040HP2	2 parts	2 parts	SJ100279	JACS-30011
DD2B040HA2	2 parts	4parts	SJ100281	
DD2P040MA1	-	-	SJ100278	

Receptacle: DD2R040HP2

SJ Drawing No.: SJ100279



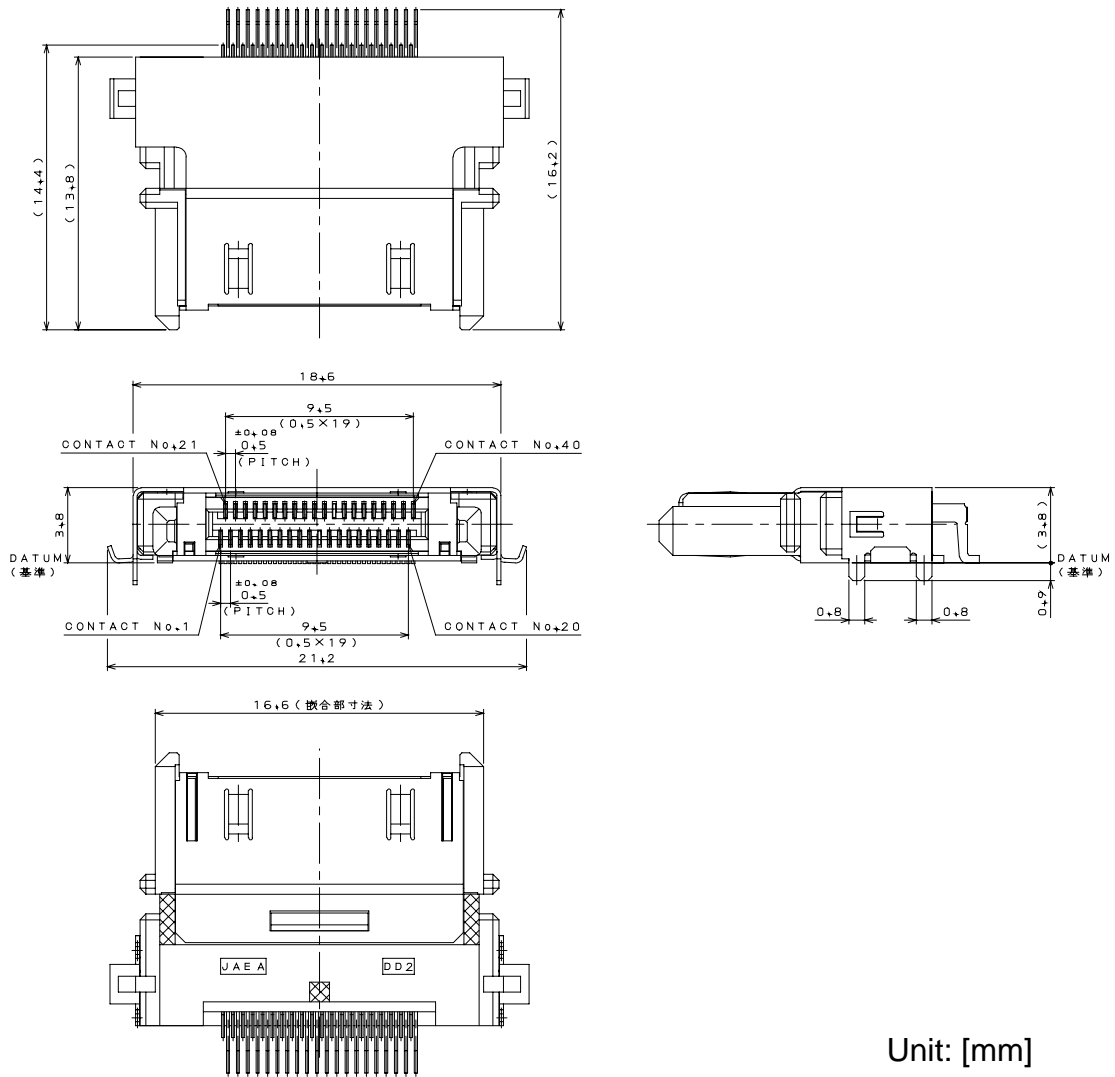
Unit: [mm]



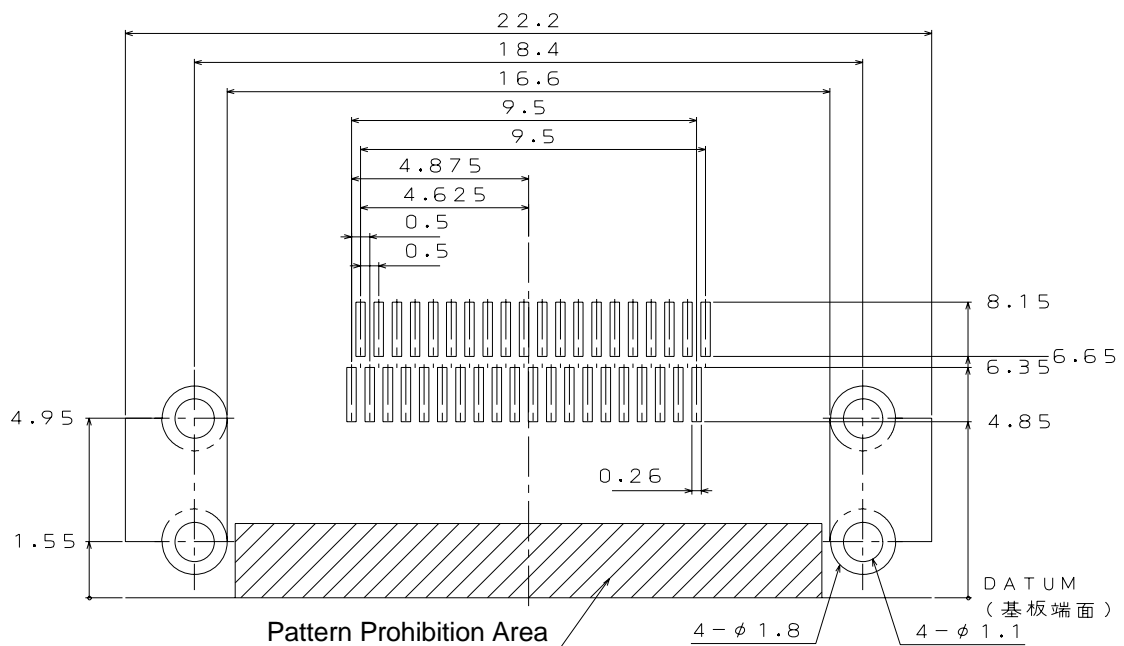
Applicable board dimension (for reference)

Receptacle: DD2B040HA2

SJ Drawing No.: SJ100281



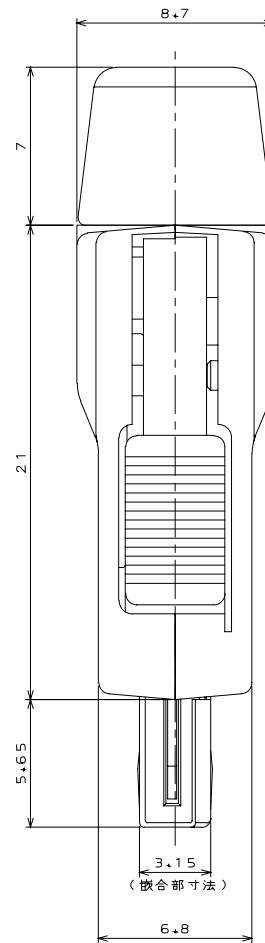
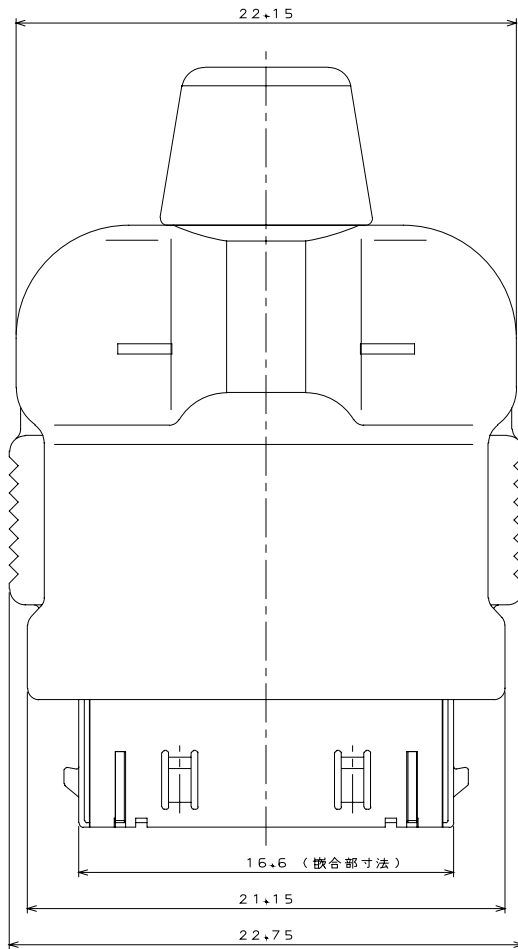
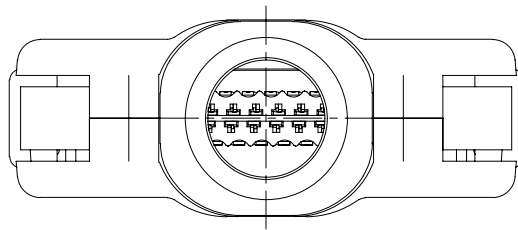
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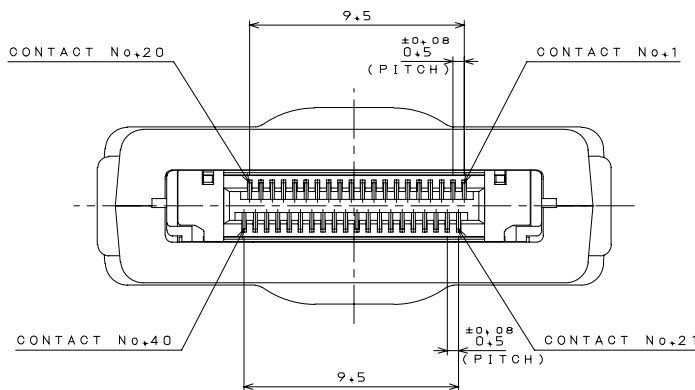
Applicable board dimension (for reference)

Receptacle: DD2P040MA1

SJ Drawing No.: SJ100278



Unit: [mm]



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 Recommended applications: computers, office machines, measuring devices, telecommunication devices (terminals, mobile devices), AV devices, household applications, FA devices, etc.

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