NEW

0.5mm pitch stroke conforming to USB2.0 Standard

DD2 Series

CONNECTOR
MB-0112-3
July 2007

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.
■Contact resistance:
50m ohm max. (initial)
■Dielectric withstanding voltage :
DC300V 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: 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

DD2 - R 040 H P 2

- DD2: Series
- R: Receptacle
- 040: No. of contacts: 40 pos.
- H: Connection type — H: With hold down
- P: Plating specification — P: Contact area: Au plating: 0.1um min., Terminal area: Sn plating
- 2: Modification Code

■Cradle

DD2 - B 040 H A 2

- DD2: Series
- B: B: Cradle
- 040: No. of contacts: 40 pos.
- H: Connection type — H: With hold down
- A: Plating specification — A: Contact area: Au plating: 0.1um min., Terminal area: Au flash plating
- 2: Modification Code

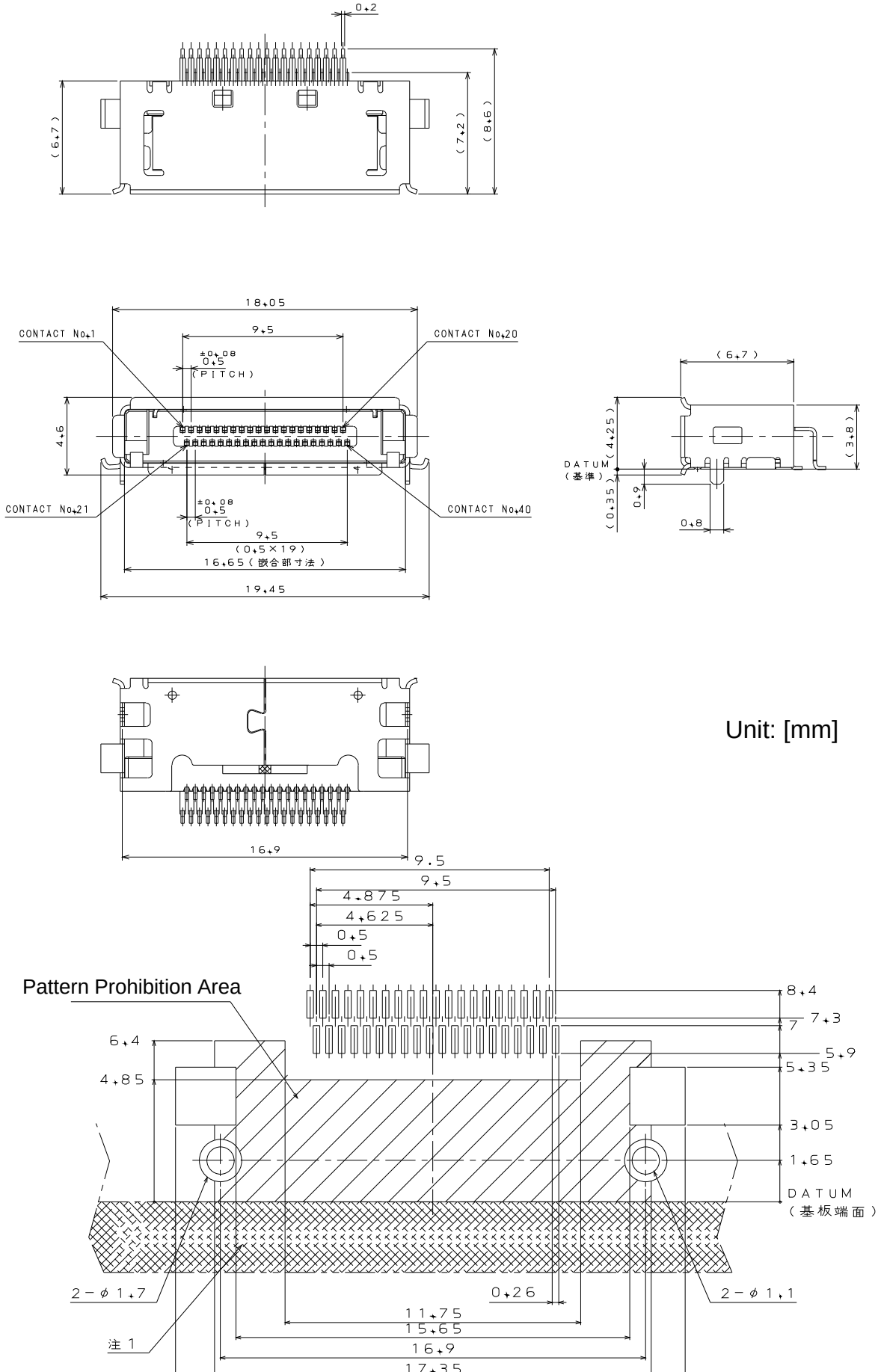
■Plug

DD2 - P 040 M A 1

- DD2: Series
- P: P: Plug
- 040: No. of contacts: 40 pos.
- M: Connection type — M: Soldered to cable
- A: Plating specification — A: Contact area: Au plating: 0.1um min., Terminal area: Au flash plating
- 1: Modification Code

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	

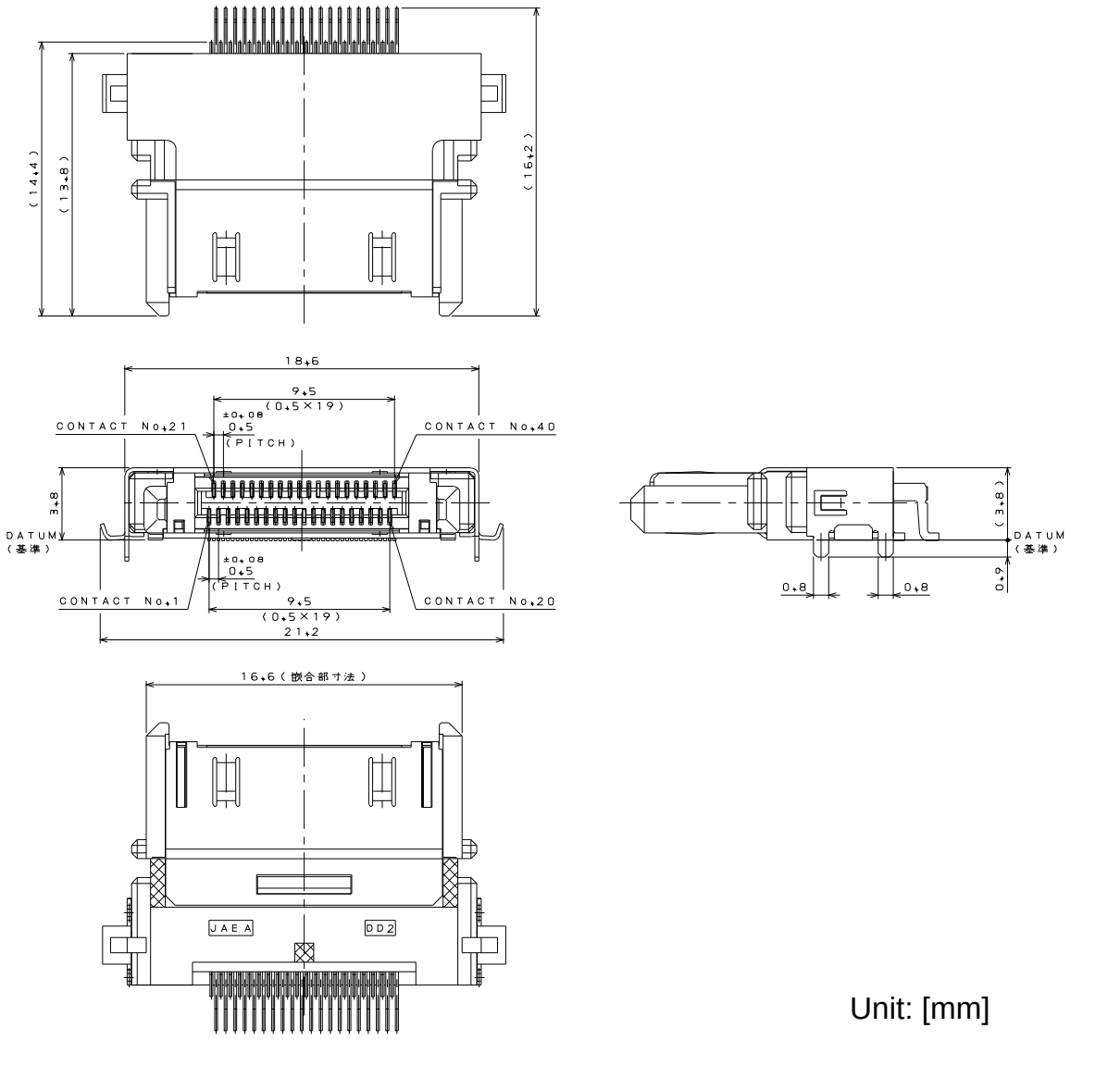
Receptacle: DD2R040HP2 | SJ Drawing No.: SJ100279



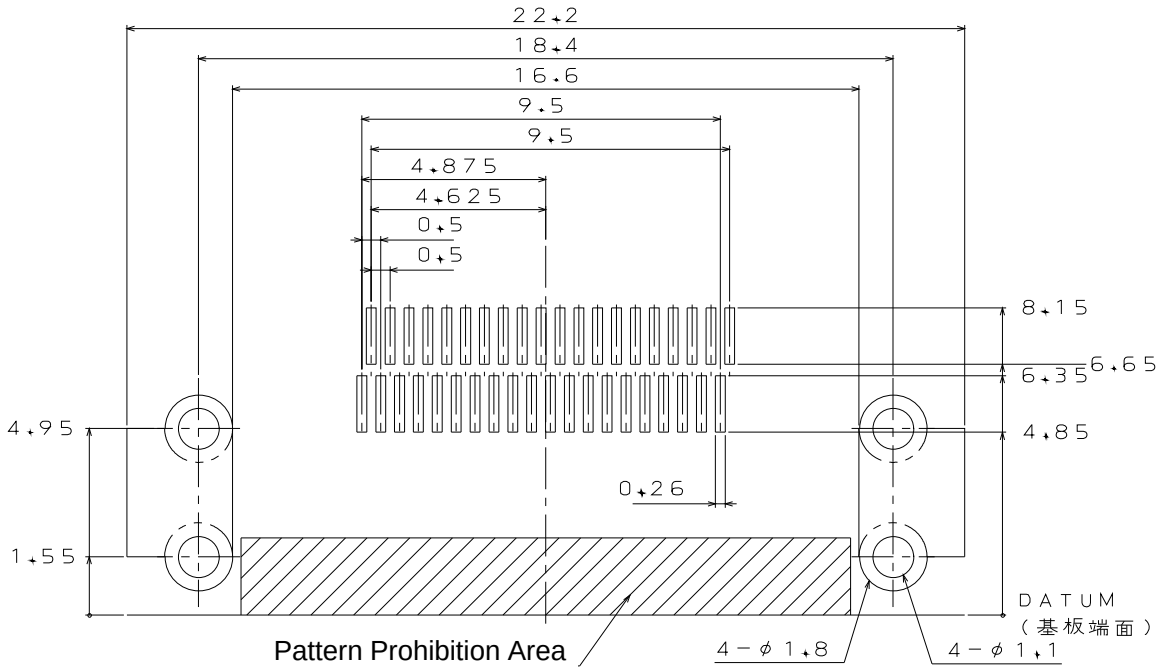
Unit: [mm]

Applicable board dimension (for reference)

Receptacle: DD2B040HA2 | SJ Drawing No.: SJ100281

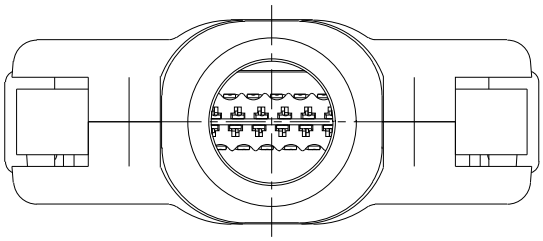


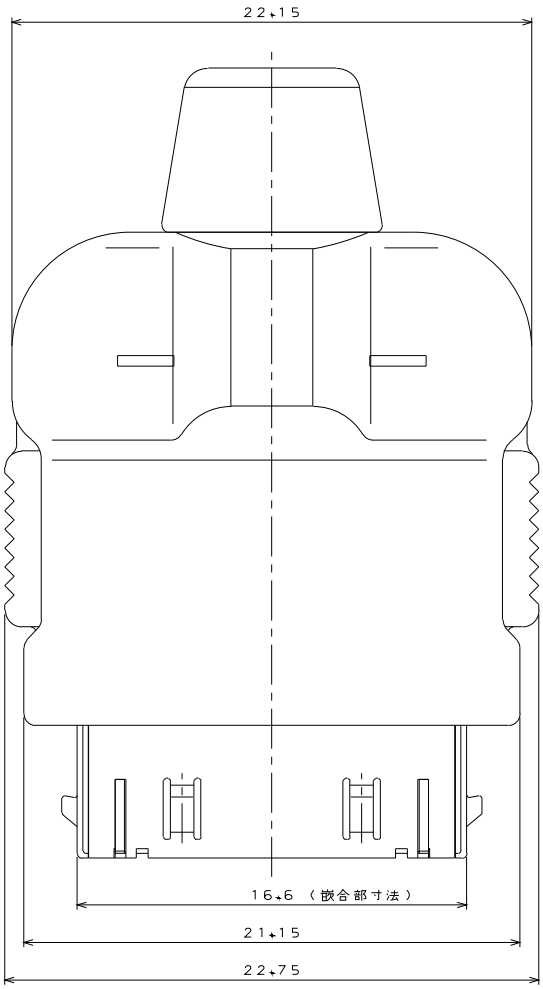
Unit: [mm]

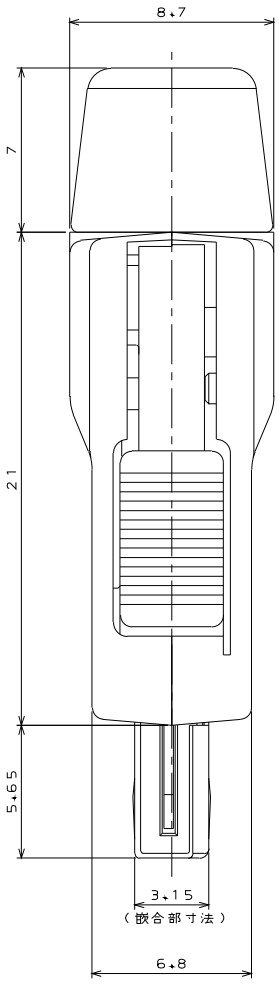


Applicable board dimension (for reference)

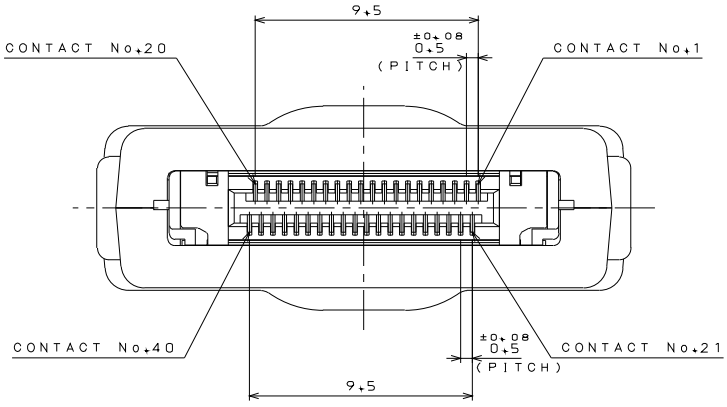
Receptacle: DD2P040MA1 | SJ Drawing No.: SJ100278







Unit: [mm]



Japan Aviation Electronics Industry, Limited

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.