

<<Outline>>

The DX07 Series connectors are compatible with the next-generation USB specification "USB Type- C^{TM} " and are expected to become popular as a standard interface for various devices.

Note) USB Type-C[™] is a trademark of USB Implementers Forum, Inc.

Features

- ■Compatible with Universal Serial Bus Type-C Specification Release 1.1
- ■Compatible with 10Gbps SuperSpeed communication. (USB 3.1 Gen 2)
- Compatible with USB Power Delivery.
- ■Reversible plug makes it possible to insert both ways.
- ■Superior EMI / EMC characteristics.
- Design for high mechanical strength.
- ■Lock structure with high durability.
- Contact mounting area is available in 2 types: space-saving 2 row SMT type, and hybrid type with superior solder mounting reworkability.
- Available in two mounting types: on-board and mid-mount.

Applicable Markets

Smartphones, tablets, PCs, high-definition camcorders, digital still cameras (single-lens reflex, compact), and others

General Specifications

- ■No. of Contacts: 24 pos.
- ■Contact Resistance: 40mΩmax.(initial)
- Dielectric Withstanding Voltage: 100Vrms / 1 minute
- ■Insulation Resistance: 100M Ω (initial)

■Rated Current: Terminal No. A1, A4, A9, A12, B1, B4, B5, B9, B12 are DC 1.25A (maximum), Others are DC 0.25A

- Rated Voltage: 20Vrms
- ■Mating Cycles: 10,000 times
- Operating Temperature: -30 Deg. C to 80 Deg. C

Materials and Finishes

	2 row SMT Type	Hybrid Type	
Components	Materials / Finishes		
Insulator 1, 2	Synthetic resin		
Contact A, B	Copper alloy / Contact area: palladium over Ni plating - Au flash plating over nickel alloy Terminal area: Au flash plating over nickel		
Shell	Stainless steel / Ni plating	Stainless steel / black Ni plating	
Mid Plate	Stainless steel / Ni plating		
Ground Plate	Stainless steel / Ni plating		
Rear Shield	Stainless steel / Ni plating		
Bracket	- Stainless steel / Ni plating		
		Stainless steel / Ni plat	

DX07 S 0 24 J J 2 R1300

refer to the product drawi

Ordering Information

[Receptacle Side]

Series DX07: USB Type C

S: On-board, B: Mid-mount

Modification Code #1

No. of Contacts: 24 pos.

Reel 1300 pcs. / reel

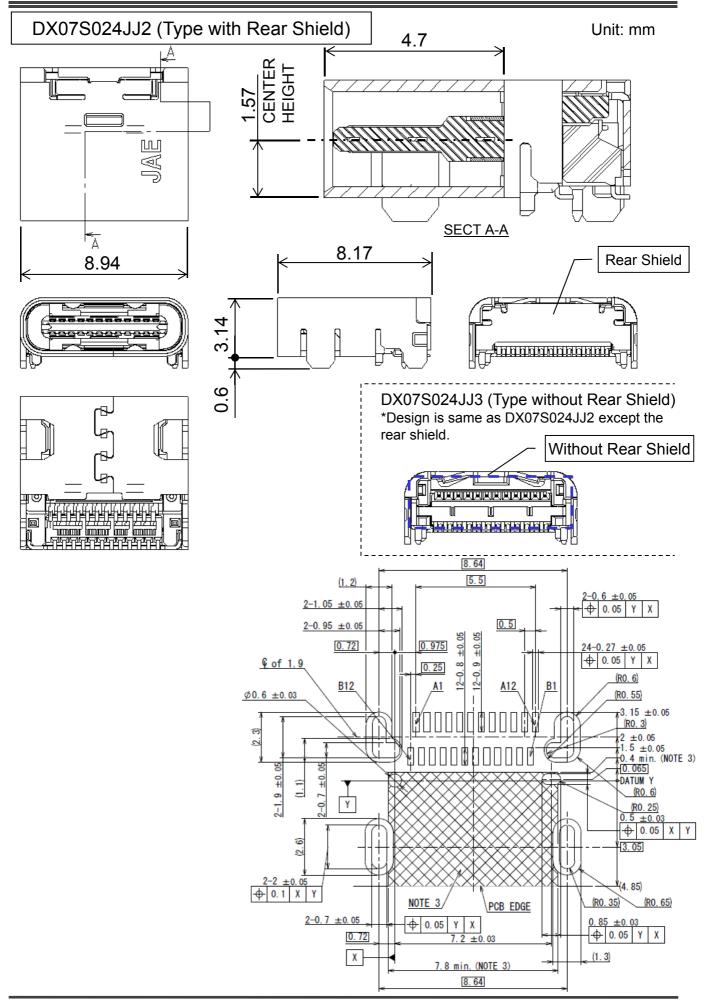
Modification Code #2

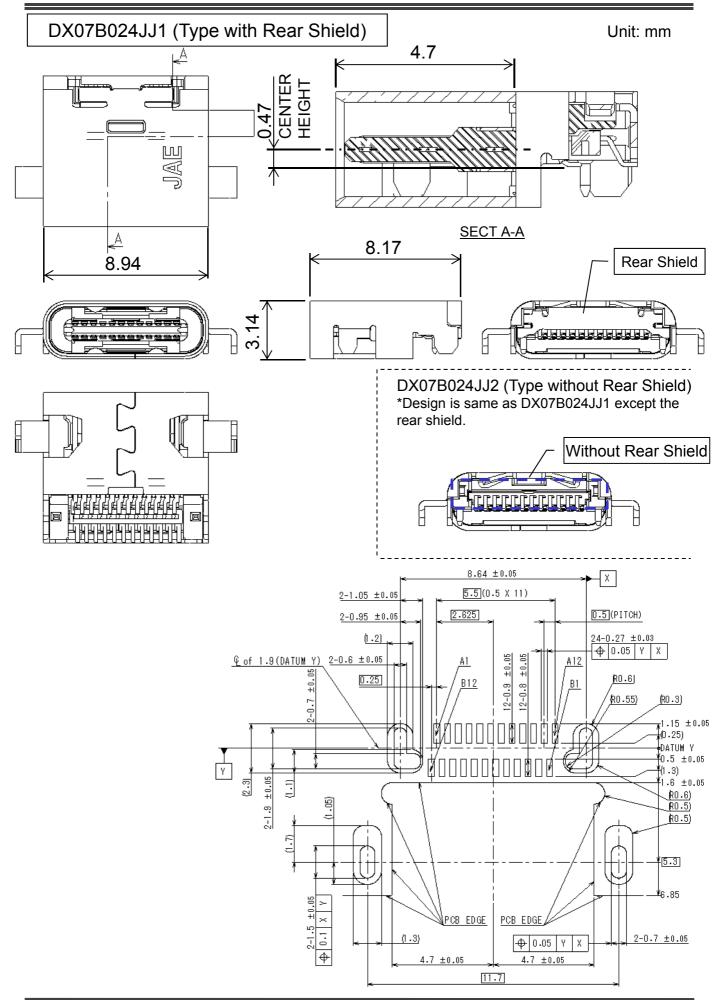
Plating Specification J: Contact area: palladium over nickel - Au flash plating over nickel alloy

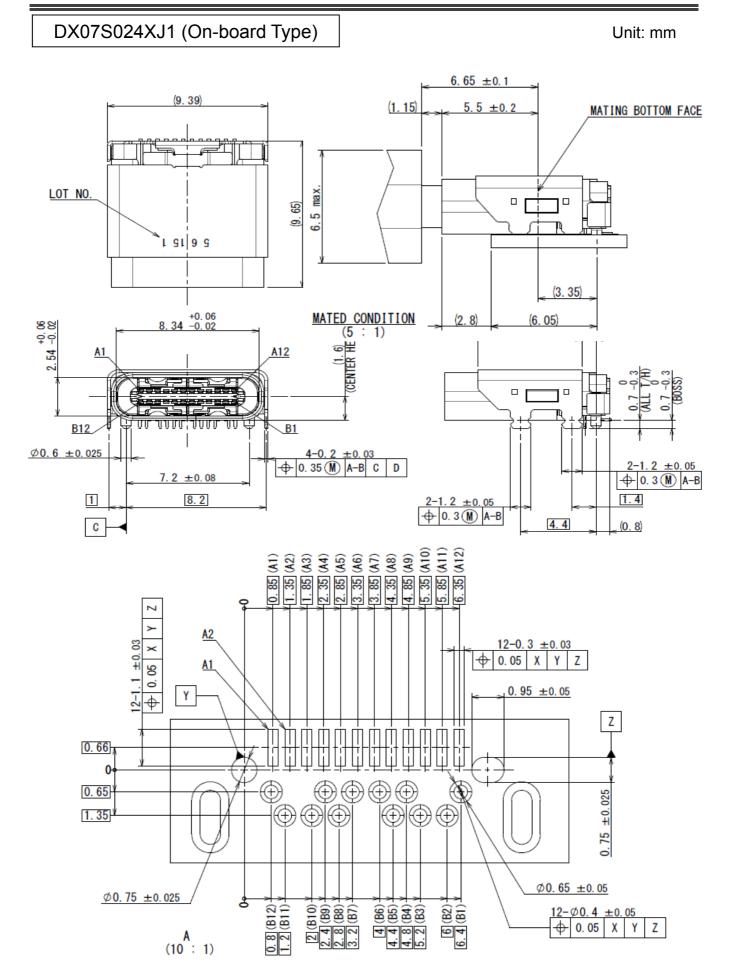
Board Connection Type (Shell area) J: 2 row SMT X: Hybrid (T/H & SMT)

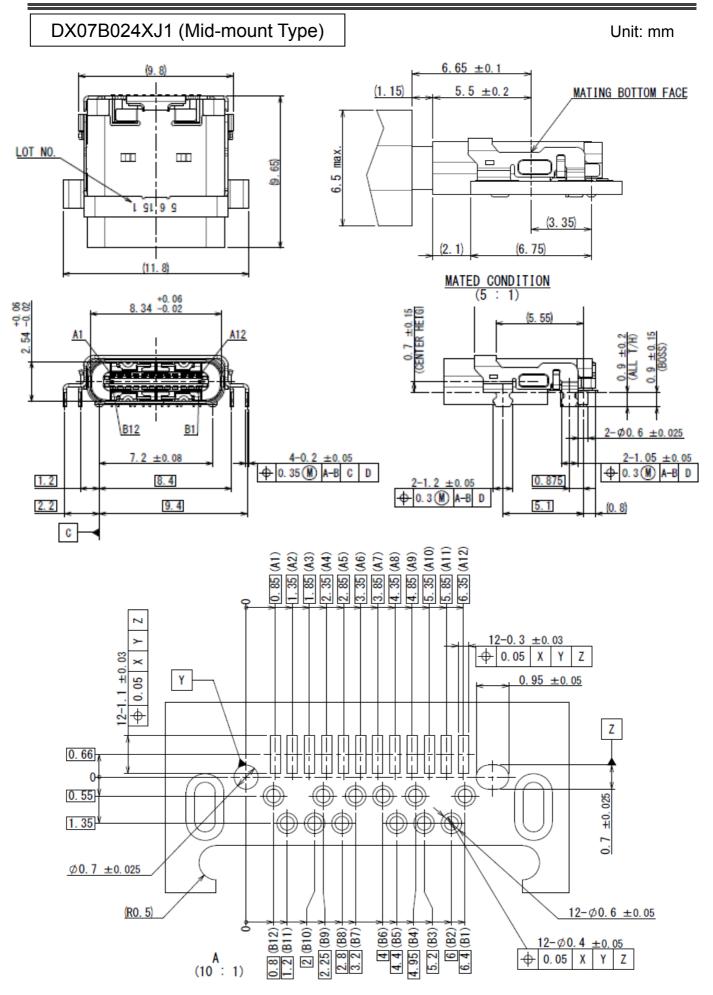
Part Number	SJ Drawing	Specifications	Mounting Type	Note
DX07S024JJ2 (Individual Connector)	SJ115946		On-	Rear Shield Yes
DX07S024JJ2R1300 (Reeled Product)	SJ115947			
DX07S024JJ3 (Individual Connector)	SJ115994	•	board	Rear Shield
DX07S024JJ3R1300 (Reeled Product)	SJ115995	JACS-		No
DX07B024JJ1 (Individual Connector)	SJ115850	30353		Rear Shield
DX07B024JJ1R1500 (Reeled Product)	SJ115851		Mid	Yes
DX07B024JJ2 (Individual Connector)	SJ115996		mount	Rear Shield
DX07B024JJ2R1500 (Reeled Product)	SJ115997			No
DX07S024XJ1 (Individual Connector)	SJ116123		On-	
DX07S024XJ1R1100	SJ116124	JACS-	board	Black Ni Plating
DX07B024XJ1 (Individual Connector)	B024XJ1 (Individual Connector) SJ116121 S0301 Mid Sh		Shell	
DX07B024XJ1R1300	SJ116122		mount	
Note) Please order in reel units.				

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Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

. The products presented in this brochure are designed for the uses recommended below.

We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.

(ii) We may separately give you our support with a quality assurance program that

you specify, when you think of a use such as :

Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc

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VSB Type-CTM Connector DX07 Series Plug RoHS Compliant Protection Cap * Plug will be packaged with the protection cap on. * Plug will be packaged with the protection cap on.

<<Outline>>

The DX07 Series connectors are compatible with the next-generation USB specification "USB Type-CTM" and are expected to become popular as a standard interface for various devices.

Note) USB Type-C[™] is a trademark of USB Implementers Forum, Inc.

Features

- Compatible with Universal Serial Bus Type-C Specification Release 1.1
- ■Compatible with 10Gbps SuperSpeed communication. (USB 3.1 Gen 2)
- Compatible with USB Power Delivery.
- ■Reversible plug makes it possible to insert both ways.
- ■Superior EMI / EMC characteristics.
- Design for high mechanical strength.
- ■Superior lock structure with high durability and clear click feeling during mating.
- ■Easy to insert with a smooth "R" on the tip of the mating area of the metal outer shell.

Applicable Markets

Smartphones, tablets, PCs, high-definition camcorders, digital still cameras (single-lens reflex, compact), and others

General Specifications

- ■No. of Contacts: 24 pos.
- ■Contact Resistance: 40mΩmax.(initial)
- Dielectric Withstanding Voltage: 100Vrms / 1 minute
- ■Insulation Resistance: 100M Ω (initial)

■Rated Current: Terminal No. A1, A4, A9, A12, B1, B4, B5, B9, B12 are DC 1.25A (maximum), Others are DC 0.25A

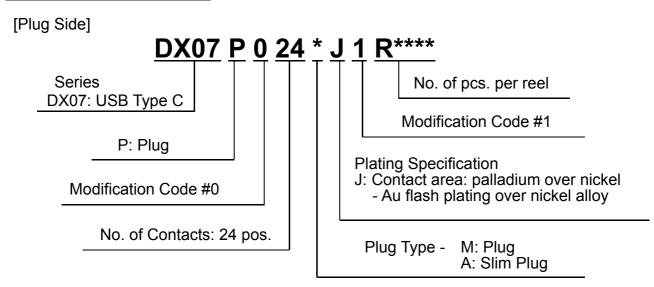
- Rated Voltage: 20Vrms
- ■Mating Cycles: 10,000 times
- ■Operating Temperature: -30 Deg. C to +80 Deg. C

Materials and Finishes

Component	Material / Finish	
Contact	Copper alloy / Contact area: palladium over nickel plating - Au flash plating over nickel alloy Terminal area: Au flash plating over nickel	
Ground Spring	Ground Spring Stainless steel / nickel plating	
Friction Lock	Friction Lock Stainless steel / nickel plating	
Shell	Stainless steel / nickel plating	
Insulator	Heat resistant resin / Black (Halogen-free)	
Inner Insulator	ator Heat resistant resin / Black (Halogen-free)	
Insulation Tape	on Tape Polyimide	
Protection Cap	Heat resistant resin / Black (Halogen-free)	

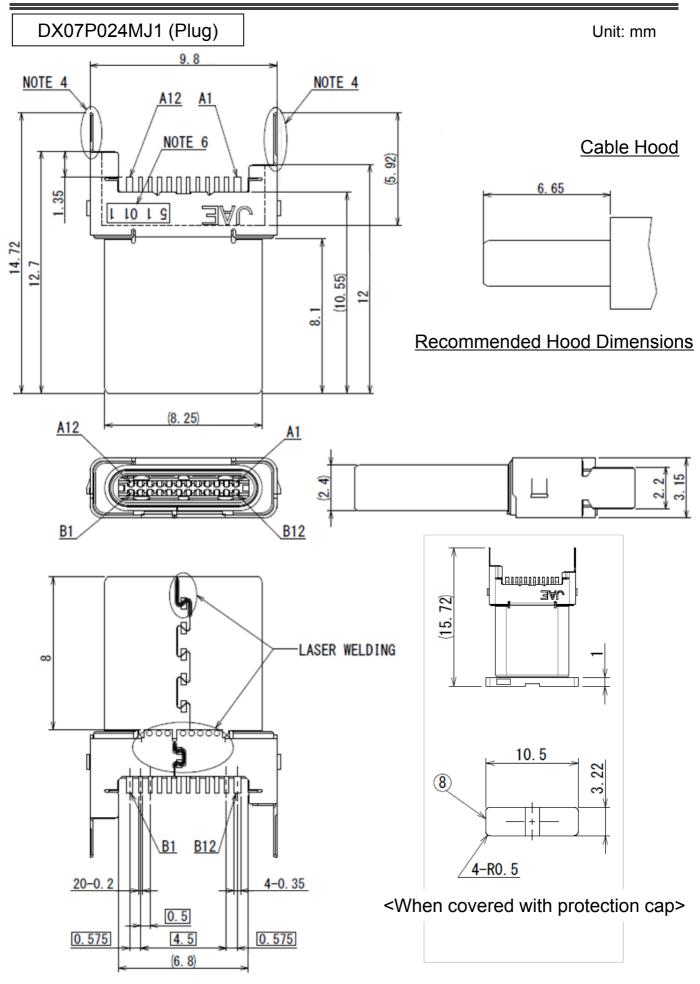
Note) Please refer to the product drawings for more details.

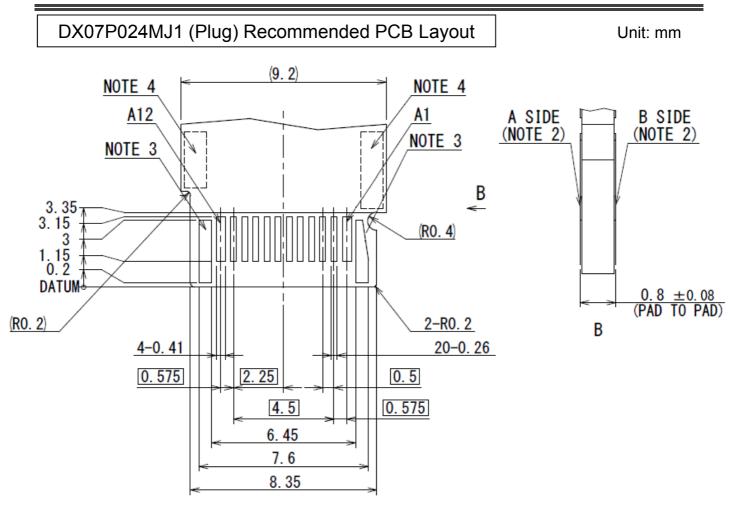
Ordering Information



Plug	Part Number	SJ Drawing	Specifications	
Plug	DX07P024MJ1 (Individual Connector)	SJ115803		
	DX07P024MJ1R1500 (Reeled Product)	SJ115804		
Slim	DX07P024AJ1 (Individual Connector)	SJ116680	JACS-30353	
Plug	DX07P024AJ1R1500 (Reeled Product)	SJ116681		

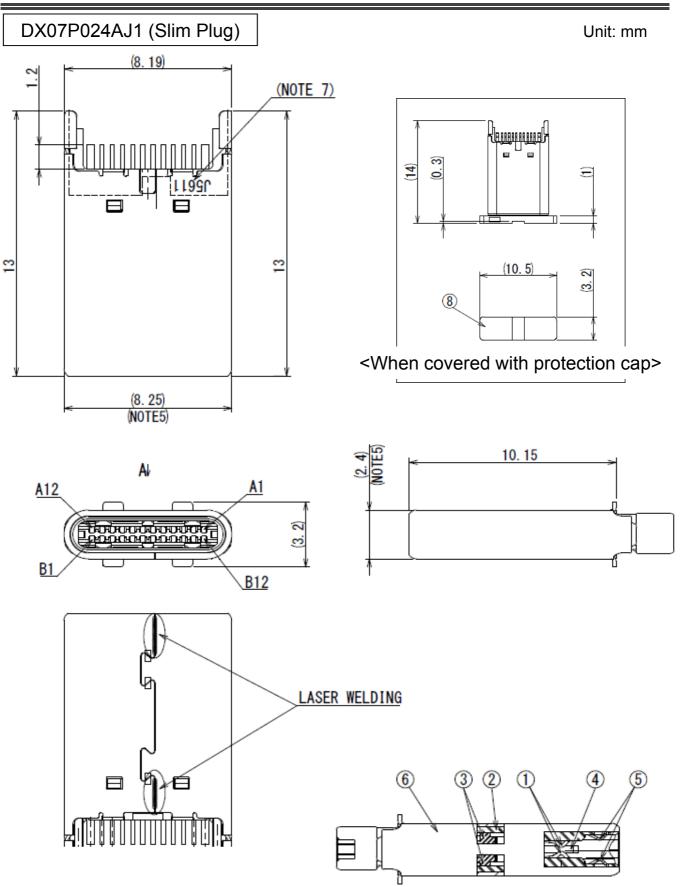
Note) Please order in reel units.

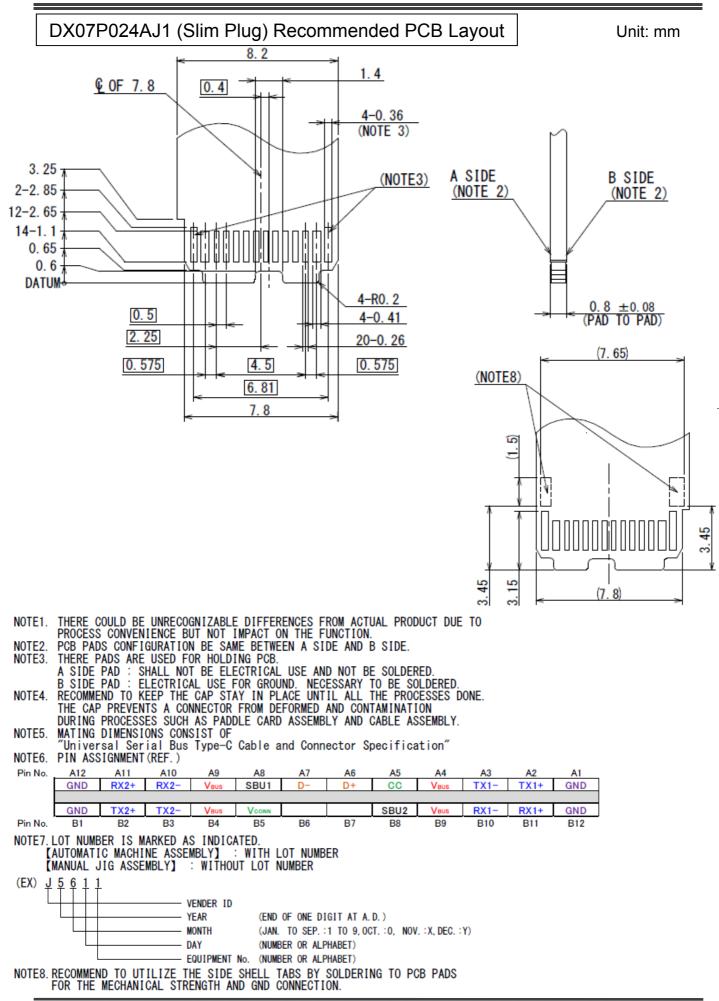




- NOTE 1. THERE COULD BE UNRECOGNIZABLE DIFFERENCES FROM ACTUAL PRODUCT DUE TO PROCESS CONVENIENCE BUT NOT IMPACT ON THE FUNCTION.
- NOTE 2. PCB PADS CONFIGURATION BE SAME BETWEEN A SIDE AND B SIDE.
- NOTE 3. THERE PADS BE WHERE A CONNECTOR HOLDS PCB. SHALL NOT BE ELECTRICAL USE NOT SOLDERED.
- NOTE 4. RECOMMEND TO UTILIZE THE SIDE SHELL TABS BY SOLDERING TO PCB PADS FOR THE MECHANICAL STRENGTH.
- NOTE 5. RECOMMEND TO KEEP THE CAP STAY IN PLACE UNTIL ALL THE PROCESSES DONE. THE CAP PREVENTS A CONNECTOR FROM DEFORMED AND CONTAMINATION DURING PROCESSES SUCH AS PADDLE CARD ASSEMBLY AND CABLE ASSEMBLY. NOTE 6. LOT NUMBER IS MARKED AS INDICATED.
- - (EX) <u>5 1 01 1</u>

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Mouser Electronics

Authorized Distributor

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JAE Electronics:

<u>DX07S024JJ2R1300</u> <u>DX07B024JJ1R1500</u> <u>DX07S024JJ3R1300</u> <u>DX07B024JJ2R1500</u> <u>DX07B024XJ1R1300</u> DX07S024XJ1R1100