NEW

USB Type-C ™ Connector
DX07 Series Receptacle

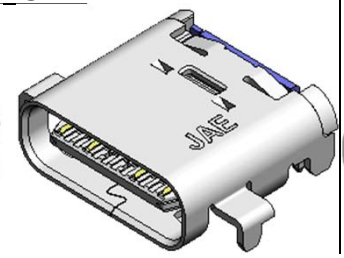
CONNECTOR
MB-0297-3
December 2015

RoHS Compliant

2 row SMT

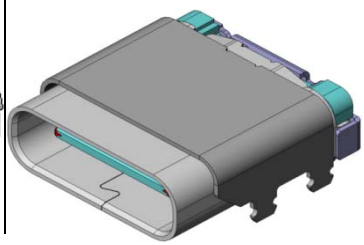


On-board Type

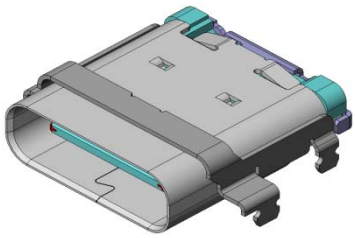


Mid-mount Type

Hybrid



On-board Type



Mid-mount Type

<<Outline>>

The DX07 Series connectors are compatible with the next-generation USB specification “USB Type-C™” 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

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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

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

Ordering Information

[Receptacle Side] **DX07 S 0 24 J J 2 R1300**

- DX07: Series DX07: USB Type C
- S: S: On-board, B: Mid-mount
- 0: Modification Code #1
- 24: No. of Contacts: 24 pos.
- J: Board Connection Type (Shell area) J: 2 row SMT X: Hybrid (T/H & SMT)
- J: Plating Specification J: Contact area: palladium over nickel - Au flash plating over nickel alloy
- 2: Modification Code #2
- R1300: Reel 1300 pcs. / reel

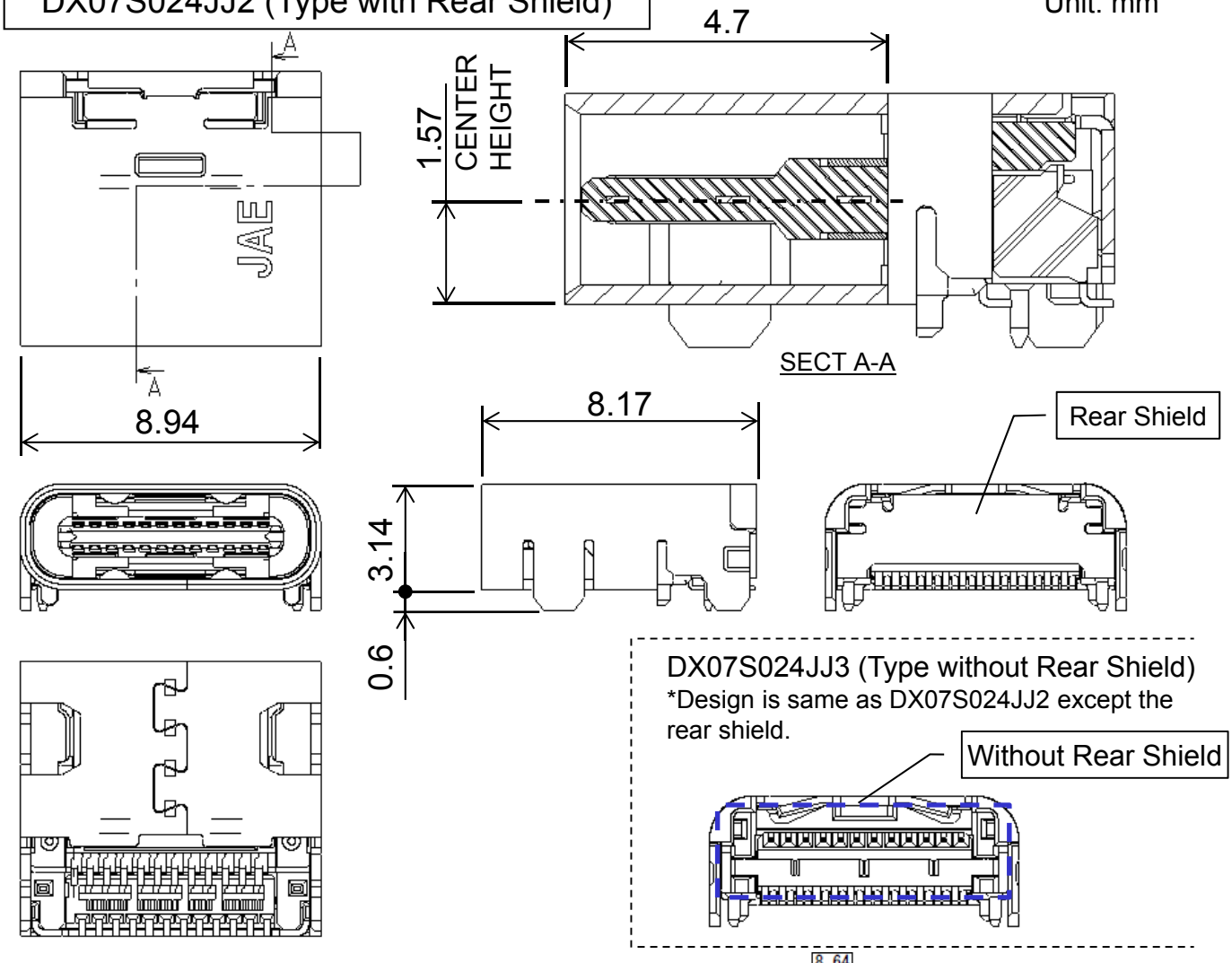
Part Number	SJ Drawing	Specifications	Mounting Type	Note
DX07S024JJ2 (Individual Connector)	SJ115946	JACS-30353	On-board	Rear Shield Yes
DX07S024JJ2R1300 (Reeled Product)	SJ115947			
DX07S024JJ3 (Individual Connector)	SJ115994			Rear Shield No
DX07S024JJ3R1300 (Reeled Product)	SJ115995			
DX07B024JJ1 (Individual Connector)	SJ115850		Mid mount	Rear Shield Yes
DX07B024JJ1R1500 (Reeled Product)	SJ115851			
DX07B024JJ2 (Individual Connector)	SJ115996			Rear Shield No
DX07B024JJ2R1500 (Reeled Product)	SJ115997			
DX07S024XJ1 (Individual Connector)	SJ116123	JACS-30361	On-board	Black Ni Plating Shell
DX07S024XJ1R1100	SJ116124			
DX07B024XJ1 (Individual Connector)	SJ116121		Mid mount	
DX07B024XJ1R1300	SJ116122			

Note) Please order in reel units.

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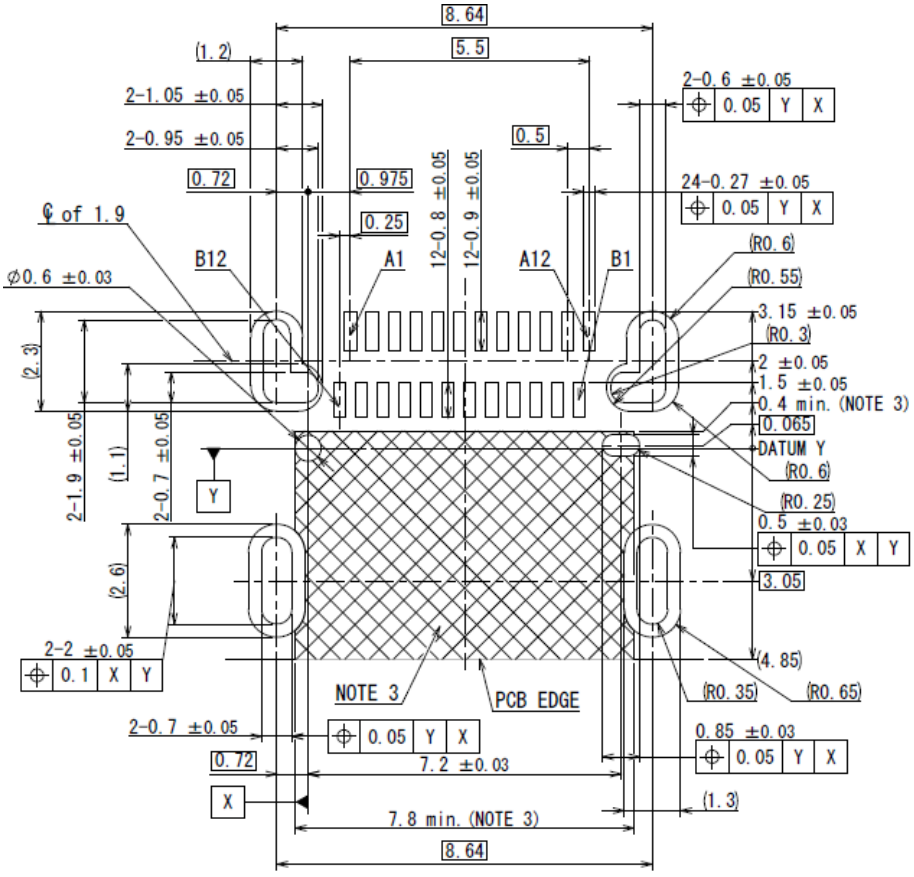
DX07S024JJ2 (Type with Rear Shield)

Unit: mm



DX07S024JJ3 (Type without Rear Shield)

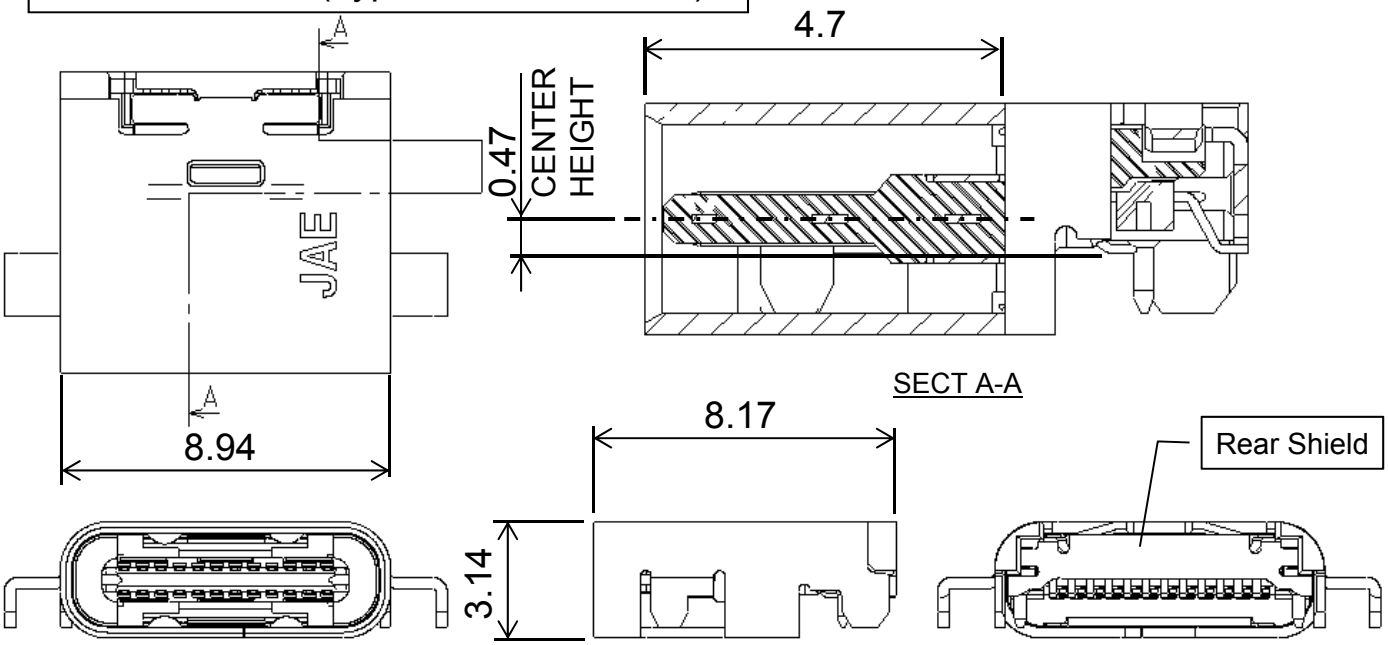
*Design is same as DX07S024JJ2 except the rear shield.

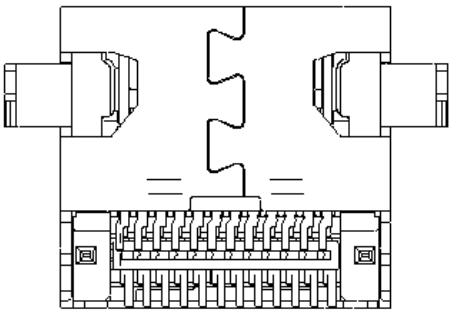


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DX07B024JJ1 (Type with Rear Shield)

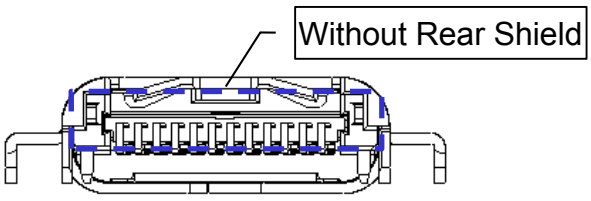
Unit: mm

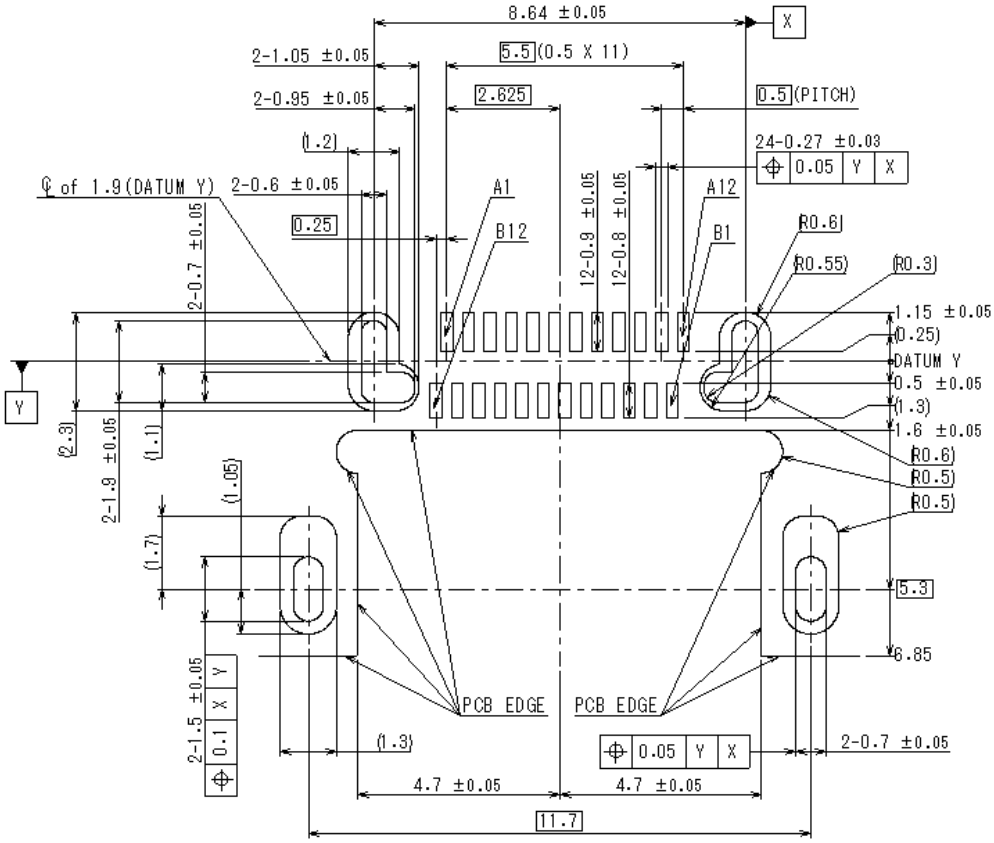




DX07B024JJ2 (Type without Rear Shield)

*Design is same as DX07B024JJ1 except the rear shield.

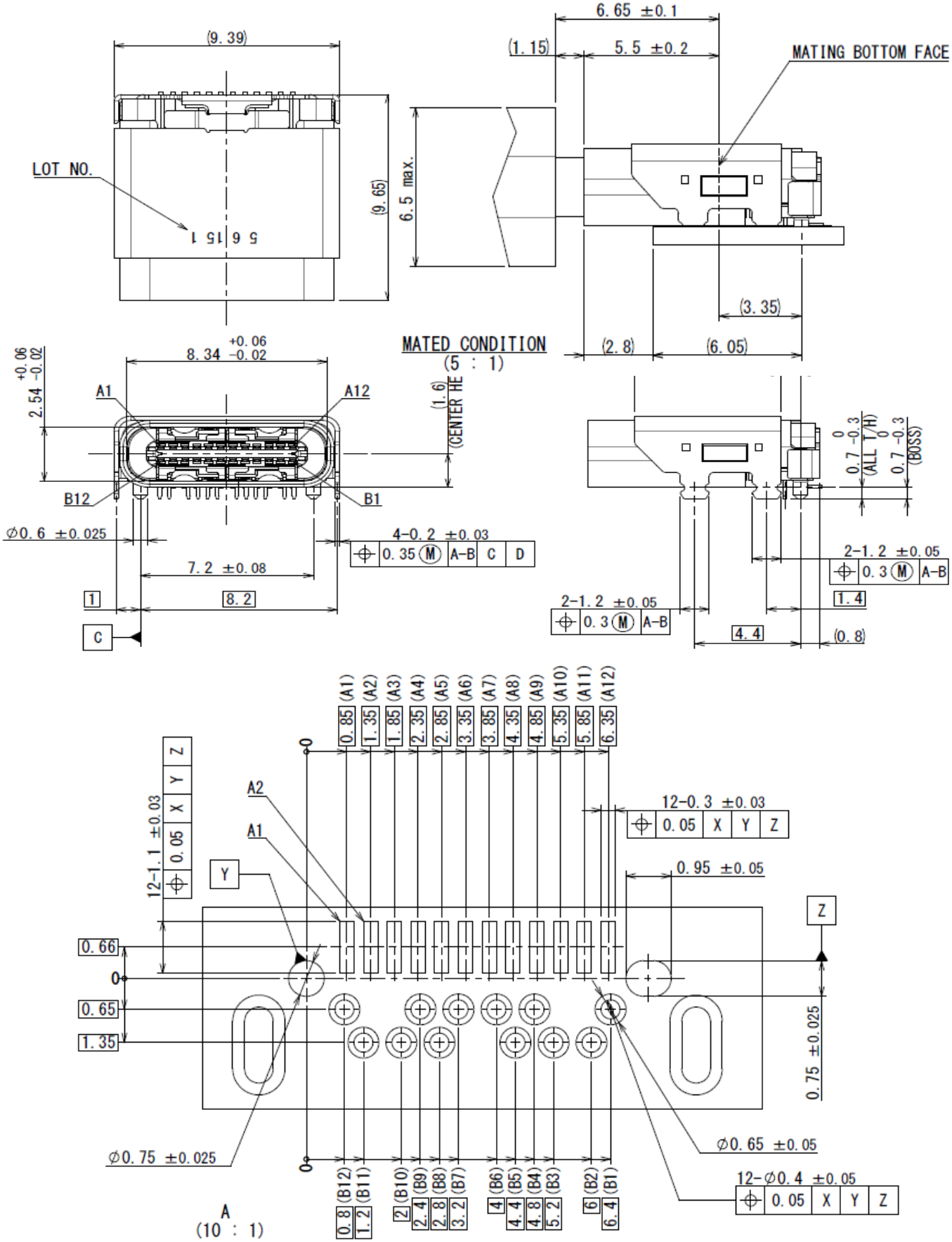




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DX07S024XJ1 (On-board Type)

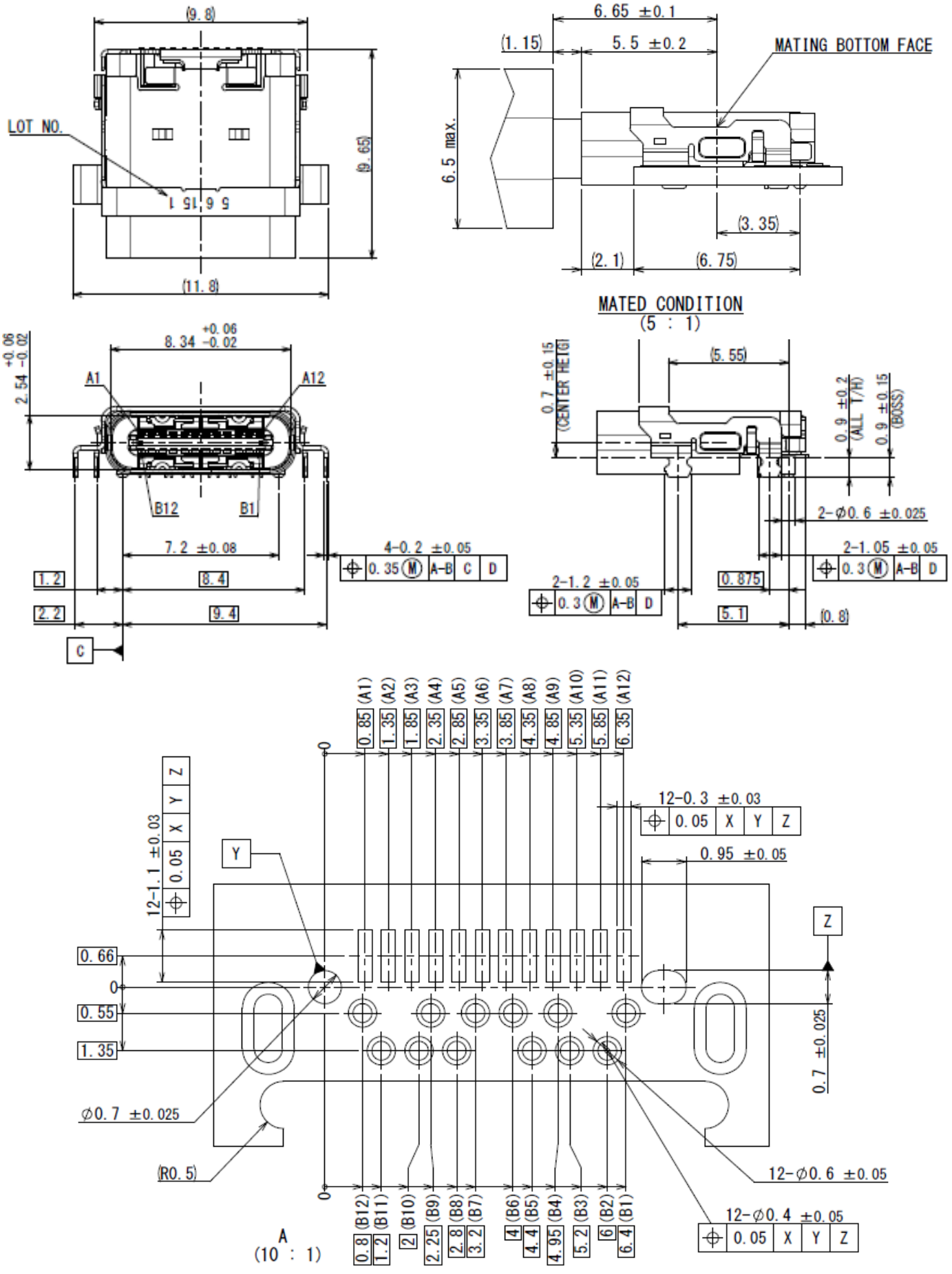
Unit: mm



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DX07B024XJ1 (Mid-mount Type)

Unit: mm



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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.

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