

# USB Type-C<sup>®</sup> Compatible DX07 Series Hybrid Contact Receptacle

CONNECTOR MB-0335-5 December 2021

## **RoHS Compliant**





On-board Type

Mid-mount Type

The DX07 Series connectors are USB Type-C<sup>®</sup> compliant, and they are a standard interface for various devices, such as PCs, smartphones, audio-visual equipment, gaming devices, and other hand-held devices.

This product is a through-hole, SMT hybrid contact receptacle which allows for reworking of soldering area.

Note) USB Type-C<sup>®</sup>, USB-C<sup>®</sup> are trademarks of USB Implementers Forum.

Applicable Markets

PCs, tablets, HUBs, POS registers, portable gaming devices, and others

#### Features

- Compliant with Universal Serial Bus Type-C Specification Release 2.1
- Compatible with 10Gbps x2 (20Gbps) Super Speed communication. (USB 3.2)
- Supports 240W (5A/48V) max. power supply.
  (Compatible with USB Power Delivery Extended Power Range)
- Lock structure with superior durability.

Remarks: Large selection of connector variations are available in DX07 Series Please refer to the chart below for brochures of other variations.

| Brochure Number                                   | Brochure Name                        |  |  |  |  |
|---|--------------------------------------|--|--|--|--|
| MB-0297-*   | DX07 SMT Contact Receptacle          |  |  |  |  |
| MB-0333-*   | DX07 Waterproof Receptacle           |  |  |  |  |
| MB-0336-*   | DX07 Vertical Receptacle             |  |  |  |  |
| MB-0350-*   | DX07 16-position Receptacle          |  |  |  |  |
| MB-0362-*   | DX07 USB4 Gen3 Compatible Receptacle |  |  |  |  |
| MB-0301-*   | DX07 Plug Series                     |  |  |  |  |
| MB-0324-*   | DX07 Harness                         |  |  |  |  |
| MB-0332-*   | DX07 Vertical Plug                   |  |  |  |  |
| Note: The asterisk (*) stands for revision number |                                      |  |  |  |  |

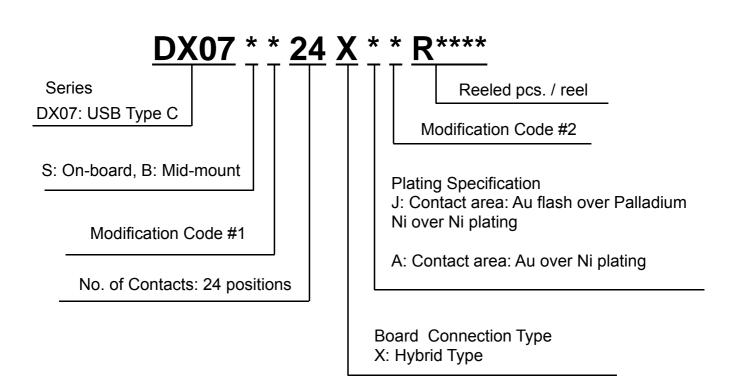
Note: The asterisk (\*) stands for revision number.

### **General Specifications**

| Number of<br>Contacts                 | 24 Position                 |
|---------------------------------------|-----------------------------|
| Contact<br>Resistance                 | 40m $\Omega$ max. (initial) |
| Dielectric<br>Withstanding<br>Voltage | 100Vrms / 1minute           |
| Insulation<br>Resistance              | 100MΩ (initial)             |
| Durability                            | 10,000 times                |
| Operating<br>Temperature<br>Range     | -40°C ~ +85°C               |

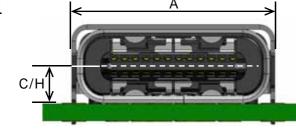
| Rated<br>Current | V <sub>BUS</sub> (Terminal No. A4, A9, B4, B9) DC 5A (Total) |  |  |  |  |
|------------------|--|--|--|--|--|
|                  | GND(Terminal No. A1, A12, B1, B12) DC 6.25A(Total)           |  |  |  |  |
|                  | V <sub>CONN</sub> (Terminal No. B5) DC 1.25A                 |  |  |  |  |
|                  | Others DC 0.25A / pin  |  |  |  |  |
| Rated<br>Voltage | 48Vrms   |  |  |  |  |
|                  |  |  |  |  |  |

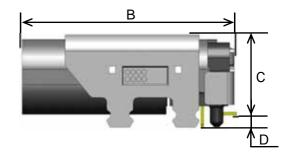
### Ordering Information



**Outer Dimensions** 

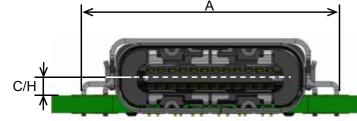
## On-board

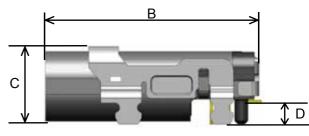




Unit: mm Dimension Dimension Dimension Dimension Mating Shell C/H Part Number Note Length Plating А В С D Black DX07S024XJ1 0.7 Nickel 1.6 9.4 9.65 3.34 5.5 Bracket 0.9 DX07S024XJ1A Contact 0.7 DX07SA24XJ2 2.0 10.5 9.25 3.77 0.9 5.1 Nickel Flange Screw 10.17 DX07S024XJ4 -hole 10.44 Body Bracket M2 5.17 1.9 3.4 10.0 4.7 Contact 1.8 DX07S024XA8 10.25 5.17

## Mid-mount





Unit: mm

| Part Number |  | C/H | Dimension<br>A | Dimension<br>B | Dimension<br>C | Dimension<br>D | Mating<br>Length | Shell<br>Plating | Note |
|-------------|--|-----|----------------|----------------|----------------|----------------|------------------|------------------|------|
| DX07B024XJ1 |  | 0.7 | 11.8           | 9.65           | 3.14           | 0.9            | 5.5              | Black<br>Nickel  |      |

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#### **Technical Documents**

| Part Number                       | Drawing<br>Number    | Specifications | Handling<br>Instructions | Package Quantity  |  |
|-----------------------------------|----------------------|----------------|--------------------------|-------------------|--|
| DX07B024XJ1<br>DX07B024XJ1R1300   | SJ116121<br>SJ116122 |                | JAHL-30361               | 1,300 pieces/reel |  |
| DX07S024XJ1<br>DX07S024XJ1R1100   | SJ116123<br>SJ116124 |                |                          | 1,100 pieces/reel |  |
| DX07S024XJ1A<br>DX07S024XJ1AR1000 | SJ117695<br>SJ117696 | JACS-30361     |                          | 1 000 piagoo/rool |  |
| DX07SA24XJ2<br>DX07SA24XJ2R1000   | SJ116666<br>SJ116667 | JACS-30301     |                          | 1,000 pieces/reel |  |
| DX07S024XJ4<br>DX07S024XJ4R250    | SJ119851<br>SJ119852 |                |                          | 250 pieces/reel   |  |
| DX07S024XA8<br>DX07S024XA8R700    | SJ121226<br>SJ121227 |                |                          | 700 pieces/reel   |  |

Note) Please order in reel units.

#### 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.

3. 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.

#### Japan Aviation Electronics Industry, Limited

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