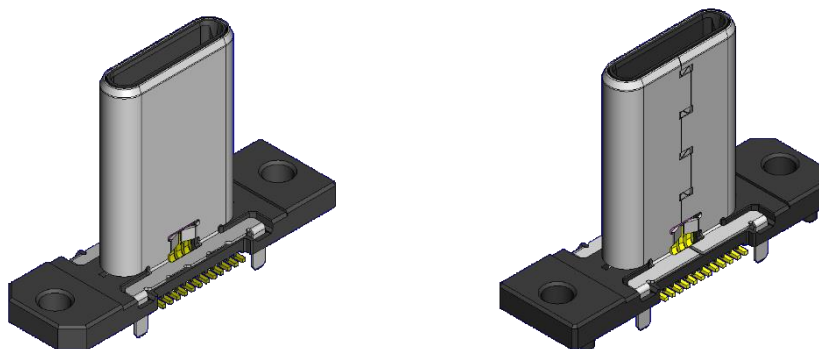


USB Type-C® Compatible Connector DX07 Series Vertical Plug

CONNECTOR

MB-0332-2E

Apr. 2025

RoHS Compliant

Overview

The DX07 Series Vertical Plug is a straight plug compatible with USB Type-C® receptacle connectors.

This product is a vertical plug connector with reduced locking force and is designed to be used in docking applications such as cradles.

Note) USB Type-C®, USB-C® are trademarks of USB Implementers Forum.

Application

Docking stations and accessories for Smartphones, tablets, PCs, camcorders, digital still cameras, and others

Features

- Mating compatible with USB Type-C receptacle connectors
 - Surface mount type, vertical 24-position plug with consideration for docking setup
 - Supports 240W (5A/48V) max. power supply.
(Compatible with USB Power Delivery Extended Power Range)
 - Reversible plug makes it possible to insert both ways
 - Low retention force to prevent the dock from being lifted when removing device from dock
 - Flanges with $\varnothing 1.6\text{mm}$ holes for screw fastening to the housing or board
 - Through-hole soldering tab to enhance strength against lateral load
 - Easy to mate with a smooth radius on the mating area of the metal outer shell
 - Supplied with a protective cap preventing terminal deformation and foreign object ingress
- *Not compatible with IATF.

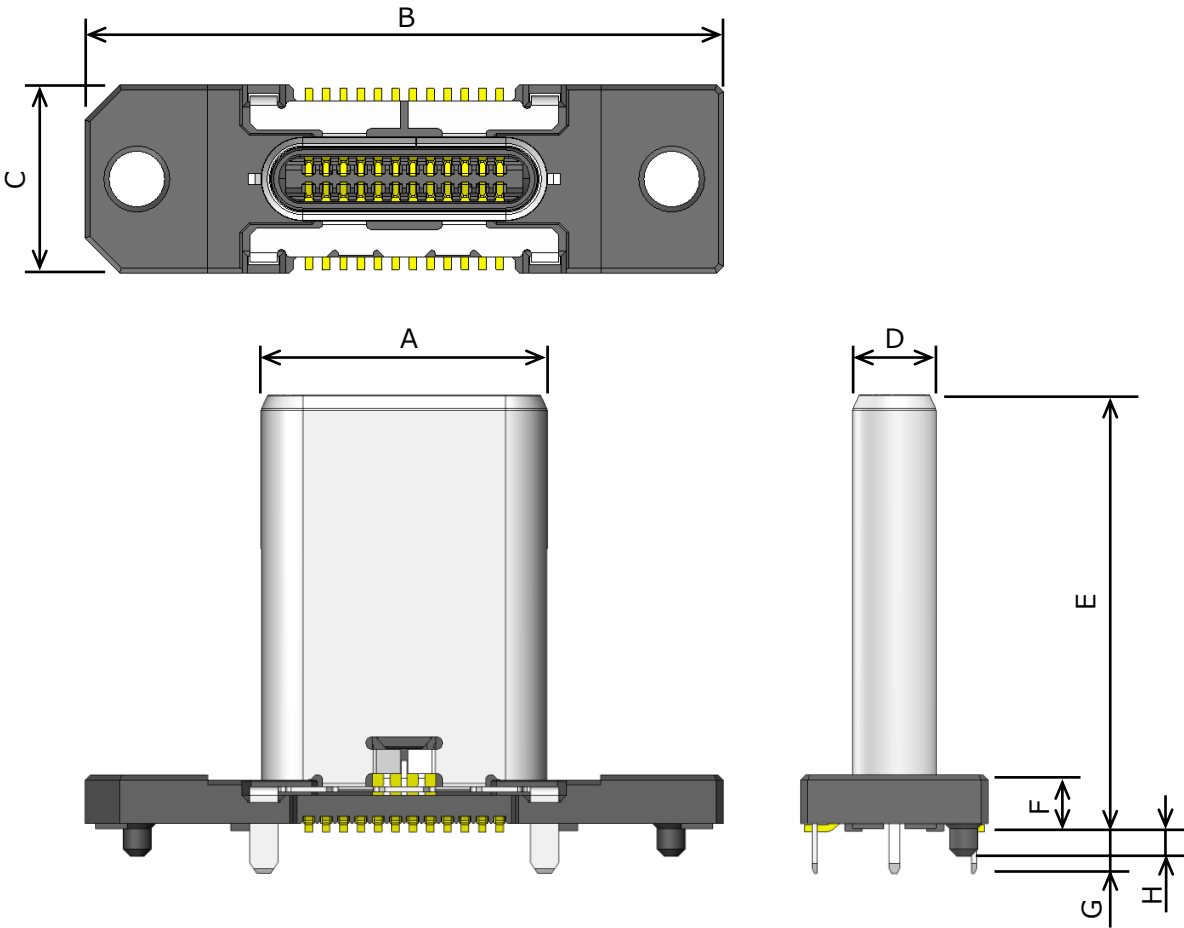
General Specifications

Number of Contacts	24 Positions
Rated Current	V _{BUS} (Terminal No. A4, A9, B4, B9) DC 5A (Total)
	GND (Terminal No. A1, A12, B1, B12) DC 6.25A (Total)
	V _{CONN} (Terminal No.B5) DC 1.25A
	Others DC 0.25A/pos.
Rated Voltage	48Vr.m.s.
Contact Resistance	40mΩ max. (initial)
Dielectric Withstanding Voltage	100Vr.m.s. (per minute)
Insulation Resistance	100MΩ (initial)
Durability	10,000 times
Operating Temperature	-40 deg. C to +85 deg. C

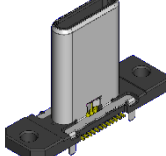
Ordering Information

<u>DX07</u>	<u>V</u>	<u>N</u>	<u>24</u>	<u>W</u>	<u>A</u>	<u>2</u>	<u>C****</u>
Series DX07: USB Type-C							Packaged qty. per box (224pcs. per tray)
	V: Vertical Plug						Modification Code: #2
	Modification Code: #1						Plating Specification A: Contact area: Au plating over Ni
		Number of Contacts: 24 positions					Mounting Type: Straight SMT

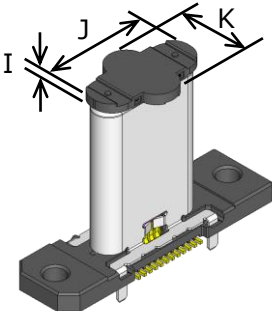
Outer Dimensions



Unit: mm

Part Number		Dimension								Note	
		A	B	C	D	E	F	G	H		
DX07VN24WA2		8.25	18.4	5.4	2.4	12.6	1.65	1.2	0.7	—	
		Dimension									
		I	J	K							
		0.8	8.5	5.7							

<With Protection Cap>
* Plug will be packaged with the protection cap on.



Part Numbers and Product Drawings

Part Number	Drawing Number	Specifications	Package Quantity
DX07VN24WA2 DX07VN24WA2C1568	SJ119572 SJ119573	JACS-30353-12	1,568

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-0301-*	DX07 Plug Series
MB-0324-*	DX07 Harness
MB-0333-*	DX07 Waterproof Receptacle
MB-0335-*	DX07 Hybrid Contact Receptacle
MB-0336-*	DX07 Vertical Receptacle
MB-0350-*	DX07 16-position Receptacle
MB-0362-*	DX07 USB4 Gen3 Compatible Receptacle

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

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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