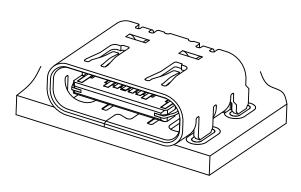


## **UBC** CONNECTOR

USB standard (USB2.0 Type-C)



The UBC connector is an USB Type-C compliant interface connector capable of supplying up to 100W of power.

The receptacle is a 16-pin design capable of transmitting data at speeds of up to 480 Mbps.

Symmetrical plug design, allowing the cable to be inserted in both top and bottom orientations.

- Up to 10,000 high durability mating cycles
- Halogen-free

## ■ Specifications

• Current rating :

1.25 A DC/pin Vbus(A4, A9, B4, B9)

GND(A1, A12, B1, B12)

CC1 (A5) CC2 (B5)

0.25 A DC/pin Other circuits

Voltage rating: 20 VAC

•Temperature range : −25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/ 40 m $\Omega$  max.

After environmental tests/  $50 \text{ m}\Omega$  max.

• Insulation resistance: 100 M $\Omega$  min.

· Withstanding voltage: There shall be no breakdown or

flashover while applying 200 VAC

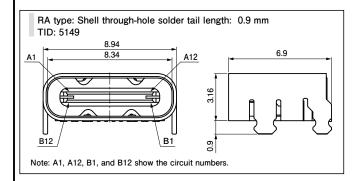
for one minute.

- \* In using the products, refer to "Handling Precaution for Terminals and Connectors" described on our website (Technical documents of Product information page).
- \* RoHS2 compliance

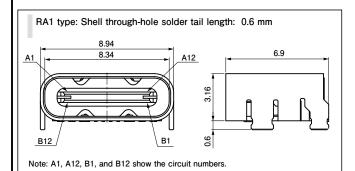
- 1 -

- \* Dimensional unit: mm
- Contact JST for details.

## Receptacle (On-board specification)



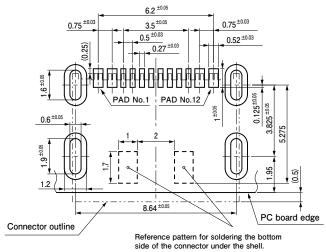
	Q'ty/reel					
	1,500					
Material and Surface finish, etc.						
Contact	Copper alloy, nickel-undercoated, selective gold-plated					
Honsing	Heat resistant resin, UL94V-0, black					
Shell	Stainless steel, nickel-plated					
Mid plate	Stainless steel					



	Q ty/Teel					
	1,500					
Material and Surface finish, etc.						
Contact	Copper alloy, nickel-undercoated, selective gold-plated					
Honsing	Heat resistant resin, UL94V-0, black					
Shell	Stainless steel, nickel-plated					
Mid plate	Stainless steel					

## PC board layout

Receptacle (On-board specification) RA/RA1 type



PC board PAD No.	1	2	3	4	5	6	7	8	9	10	11	12
Circuit No.	A1/B12	A4/B9	A5	B8	B7	A6	В6	A7	B5	A8	B4/A9	B1/A12
	GND	<b>V</b> BUS	CC1	SBU2	D-	D+	<b>D</b> +	D-	CC2	SBU1	VBUS	GND

- Recommended PC board thickness: RA type t=1.2 / RA1 type t=0.8
- It can be used without soldering the bottom of the connector; however, soldering is recommended in order to strengthen the retention force of the connector.

-2- **JST**