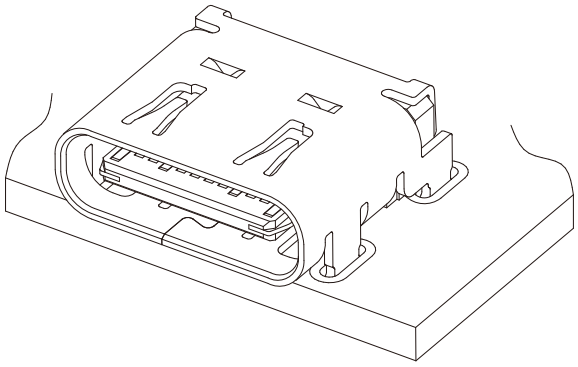
UBC CONNECTOR

USB standard (USB3.2 Type-C)



The UBC connector is a USB3.2 Type-C interface connector, capable of supplying up to 100W of power.
The receptacle is USB3.2 compliant with a data transmission rate of up to 20 Gbps.
Reversible structure that can be inserted regardless of front or back orientation of the plug.

- Up to 10,000 high durability mating cycles
- Halogen-free
- Contact leads are a dual-row SMT type.

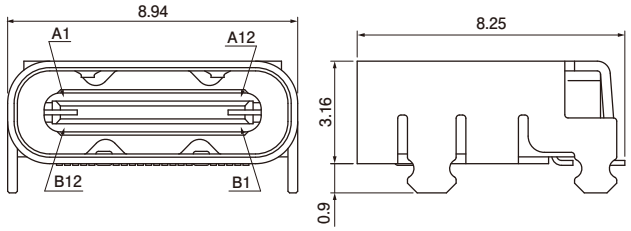
■ Specifications

- 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 V AC
- Temperature range : −25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
  After environmental tests/ 50 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: There shall be no breakdown or flashover while applying 100 VAC for one minute.

* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

Receptacle (On-board specification)

RB type: Shell solder tail length: 0.9 mm
TID: 12674

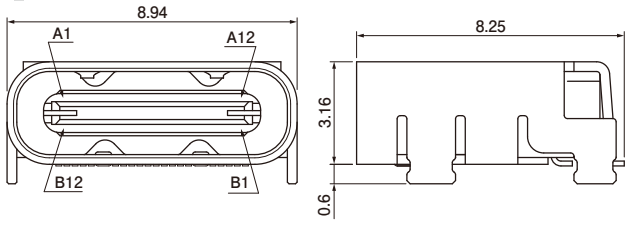


Note: A1, A12, B1, and B12 show the circuit numbers.

Model No.	Q'ty/reel
UBC-RB-TF(HF)	1,500

Material and Surface finish, etc.	
Contact	Copper alloy, selective gold-plated
Housing	LCP, black
Shell	Stainless, nickel-plated
Mid plate	Stainless

RB1 type: Shell solder tail length: 0.6 mm
TID: 13307



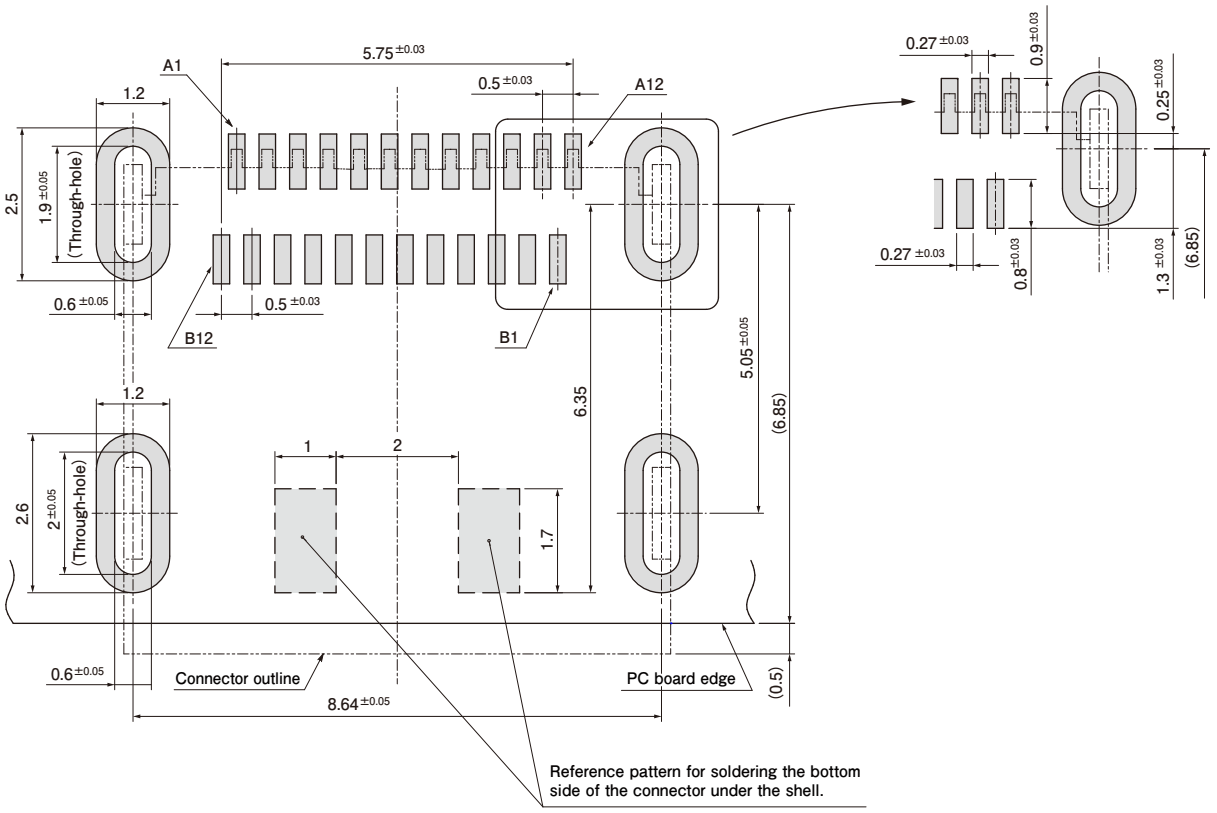
Note: A1, A12, B1, and B12 show the circuit numbers.

Model No.	Q'ty/reel
UBC-RB1-TF(HF)	1,500

Material and Surface finish, etc.	
Contact	Copper alloy, selective gold-plated
Housing	LCP, black
Shell	Stainless, nickel-plated
Mid plate	Stainless

JST

PC board layout



※ Reference PC board thickness: RB type t=1.2 / RB1 type t=0.8
Reference layout to ensure the shell leads do not extend beyond the PCB edge.

※ The PC board layout figure shown is viewed from the connector mounting surface.

Circuits No. and Pin assignment

Circuits No.	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
	GND	TX1+	TX1−	Vbus	CC1	D+	D−	SBU1	Vbus	RX2−	RX2+	GND
	GND	RX1+	RX1−	Vbus	SBU2	D−	D+	CC2	Vbus	TX2−	TX2+	GND
Circuits No.	B12	B11	B10	B9	B8	B7	B6	B5	B7	B3	B2	B1