

# COMPU-SHIELD®

## USB - Universal Series Bus

### Description

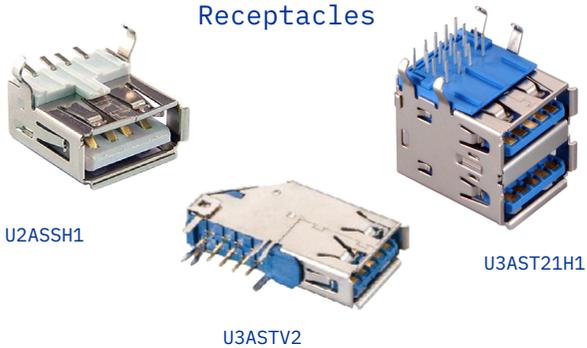
USB connectors are widely used, replacing a variety of other connectors. They are available in all standard variations.



### Specifications

- Types A, B, C, micro, mini
- Receptacles, Plugs, Cables
- USB 2.0, 3.0 / 3.1 Gen1, Gen2, ...
- SMT, THT, THR
- Side Entry, Top Entry

### USB A Receptacles



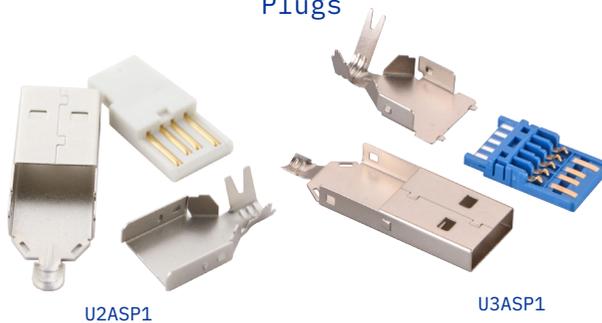
### USB B Receptacles



### USB C Plugs and Receptacles



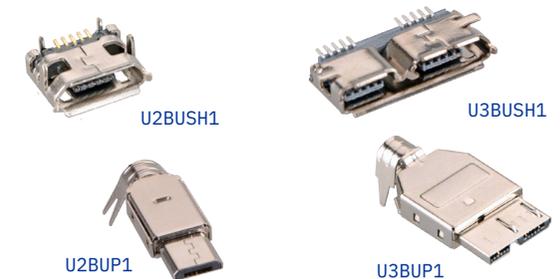
### USB A Plugs



### USB B Plugs



### micro USB Plugs and Receptacles



## USB Assembly Form

P1 ————— L ————— P2

Plug P1

USB Plug

Other:

USB Type

2.0 A

3.1 A

2.0 B

3.1 B

2.0 Micro-B

3.1 Micro-B

2.0 C

3.1 C

Cable Length (L)

mm

Cable Color

Black

Gray

White

Other:

Plug P2

USB Plug

Other:

USB Type

2.0 A

3.1 A

2.0 B

3.1 B

2.0 Micro-B

3.1 Micro-B

2.0 C

3.1 C

Comment

What is your final product/ application? Do you need customized design?

What is the annual estimated usage and over how many years?

Contact Information

Name

E-Mail

Company

Telephone

Address

City

ZIP Code

Country

**INELCO**<sup>®</sup>  
THE DISTINCTION

**compu-shield**<sup>®</sup>

usb





INELCO the home of unparalleled quality and service in Interconnection and Electronic Components is a European driven company, manufacturing European ideas, solutions and quality in Asia. INELCO's mission is to fulfill the requirements of their partners and customers and remains the best choice for cost-effective solutions. INELCO is the supplier of interconnection and electronic components and systems for networking, telecommunications and industrial applications. INELCO's product range includes modular (Western) plugs and jacks (modcon<sup>®</sup>), with and without integrated transformers (intrajack<sup>®</sup>), shielded and unshielded as well as terminals (voice services<sup>®</sup>), SFPs (compu-shield<sup>®</sup>), M12 (circon<sup>®</sup>), discrete components (discom<sup>®</sup> transformers, coils and inductors), USBs and other additional products and services.



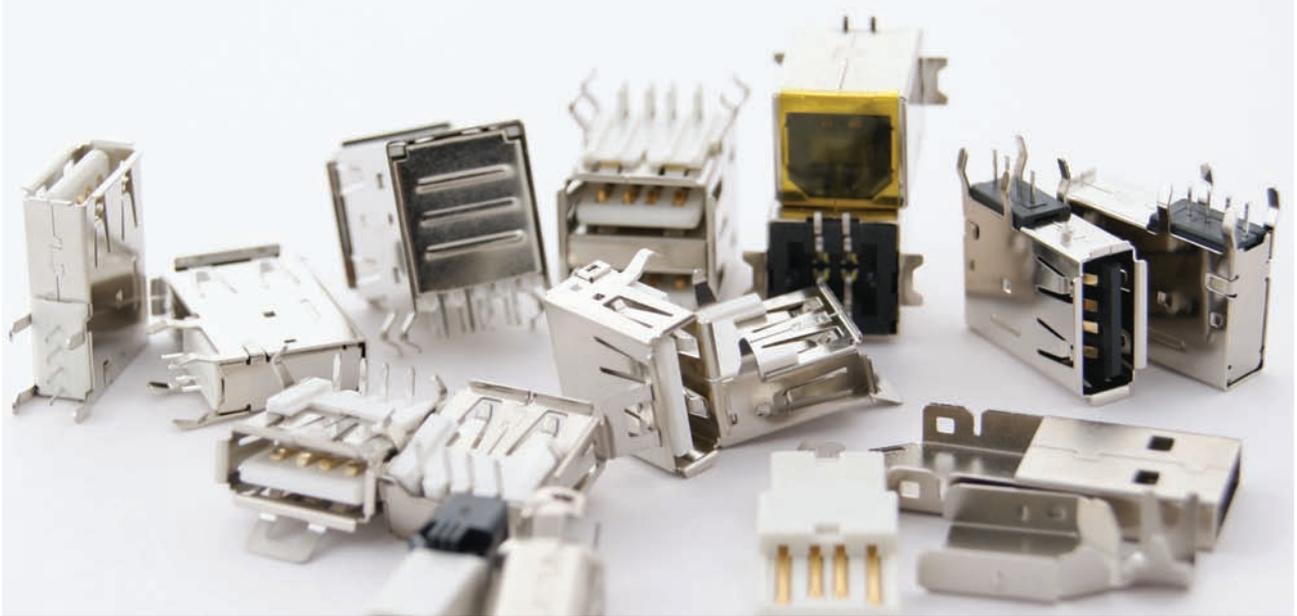
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USB 2.0 and 3.1 Gen 1 C Plugs and Jacks	20



### USB Plugs and Jacks



### Part Numbers

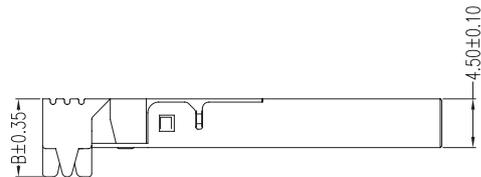
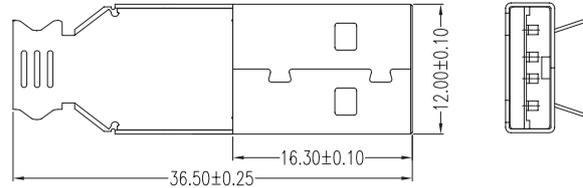
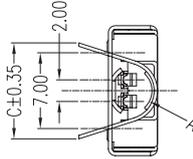
XXXX X X X X X X X X - O

X	Options:	Packing/ Printing, ... : T: Tray, R: Reel, S: Special
X	Contact Plating Gold	0 = Flashgold 1 = 3 μ", 2 = 6 μ", 3 = 15 μ", 4 = 30 μ", 5 = 50 μ"
X	Shield Plating	T: Tin, N: Nickel
X	Shield Material	C: Copper Alloy, S: Stainless Steel, I: Sheet Iron
X	Housing Color	N: Nature, E: Ebony, W: White, B: Blue
X	Housing Material	L: LCP, P: PBT, A: ABS, T: PA6T, G: PA9T, F: FR52
X	Version Counter	1 - 9
X	Mounting on PCB	H: Horizontal, V: Vertical
X	Type of Connector	P: Plug For Jacks: T: THT, S: SMT, F: Fasten/ Solder, H: Hybrid

U	USB
2/ 3	Version (2.0/ 3.0 = 3.1)
A/ B/ C	Type of USB Connector
S/ P/ M/ X/ U/ 1/ 2	Standard/ Powered/ Mini 5 Pin / Mini 10 Pin/ Micro/ Generation

**USB 2.0 A Standard Plug**

U2ASP1



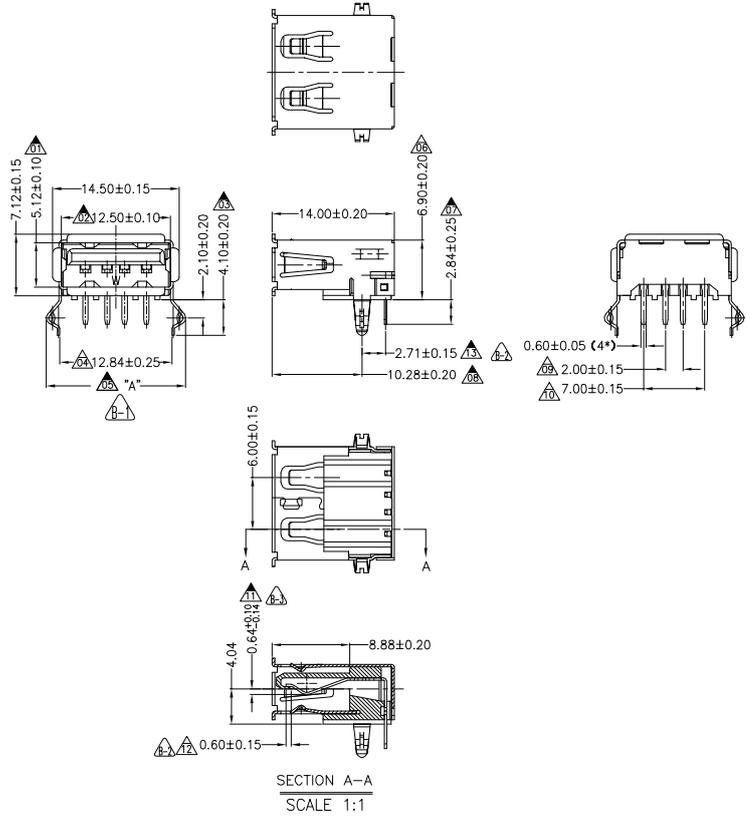
**Specification**

- Current Rating 1.5 A at 250 V AC
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

	(A)	(B)	(C)
OD:4.2	6.2	7.9	
OD:5.0	7.0	9.0	
OD:6.0	8.5	10.4	
OD:2.0	5.8	5.65	
OD:3.0	5.77	7.17	

### USB 2.0 A Standard Jacks

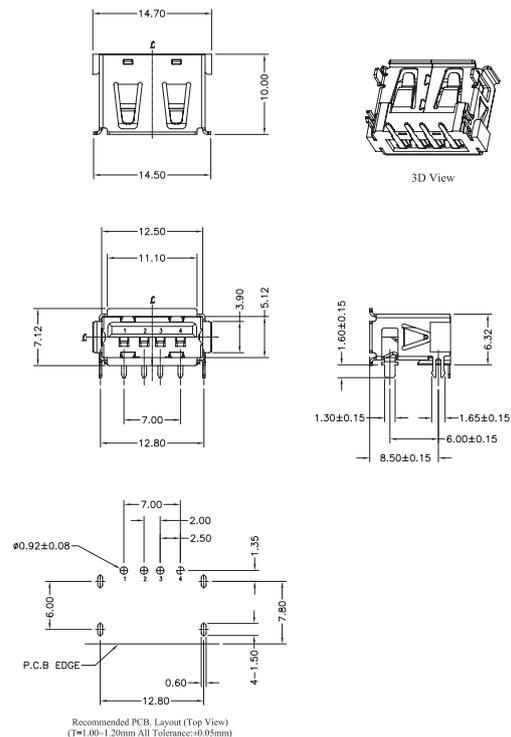
#### U2ASTH1



#### Specification

- Current Rating 1.5 A at 250 V AC
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

#### U2ASTH5

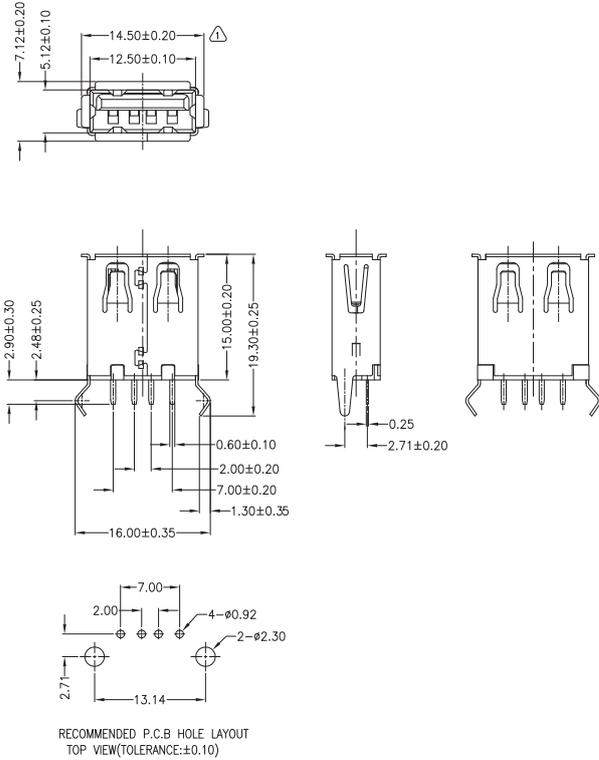


#### Specification

- Current Rating 1.5 A at 250 V AC
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

**USB 2.0 A Standard Jacks**

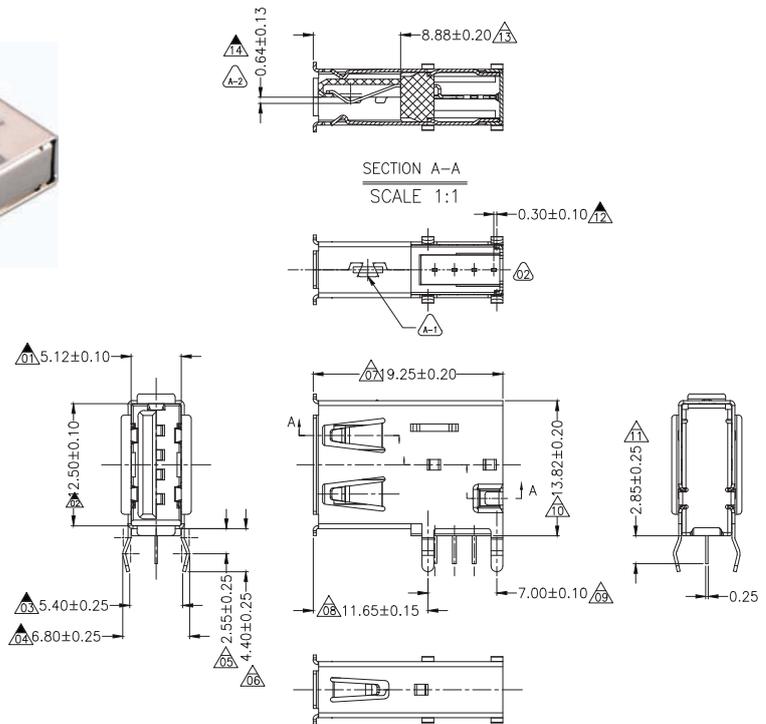
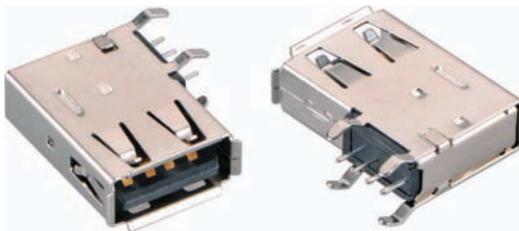
**U2ASTV1**



**Specification**

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

**U2ASTV2**

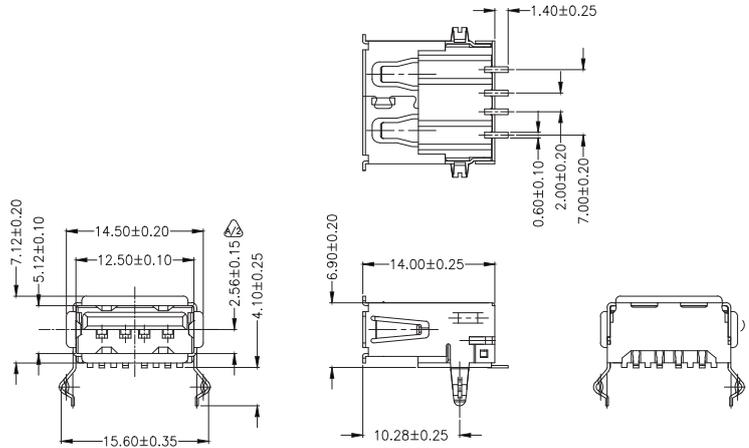


**Specification**

- Current Rating 1.5 A at 250 V AC
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

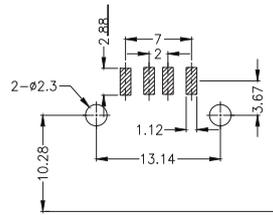
### USB 2.0 A Standard Jacks

U2ASSH1



#### Specification

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 20 mΩ max.
- Withstanding Voltage 750 V AC
- Temperature Range -40°C to +105°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.



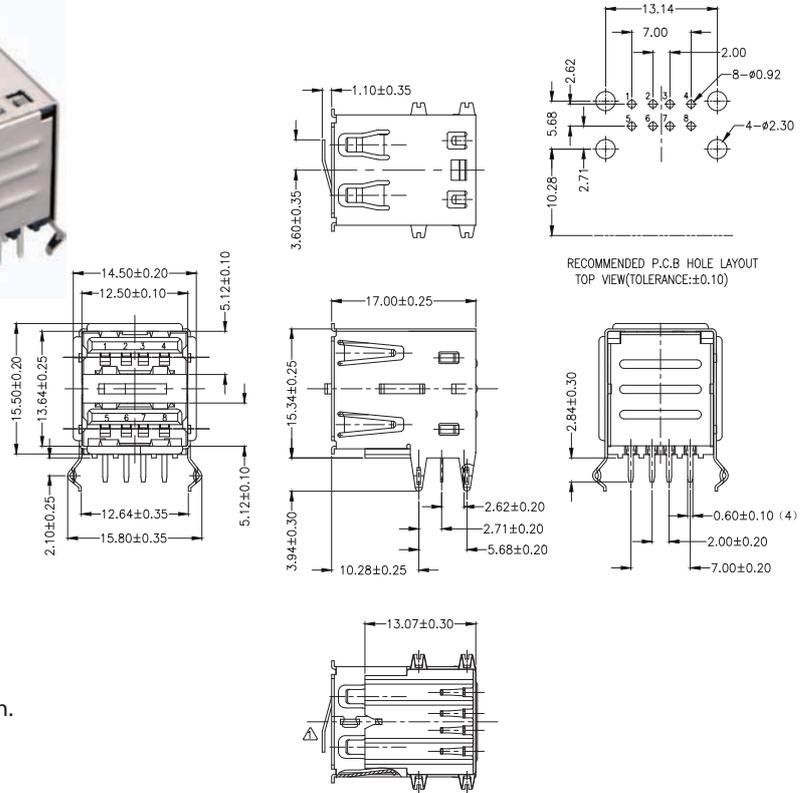
**USB 2.0 A Standard Jacks Doublestacks**

**U2AST21H1**



**Specification**

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

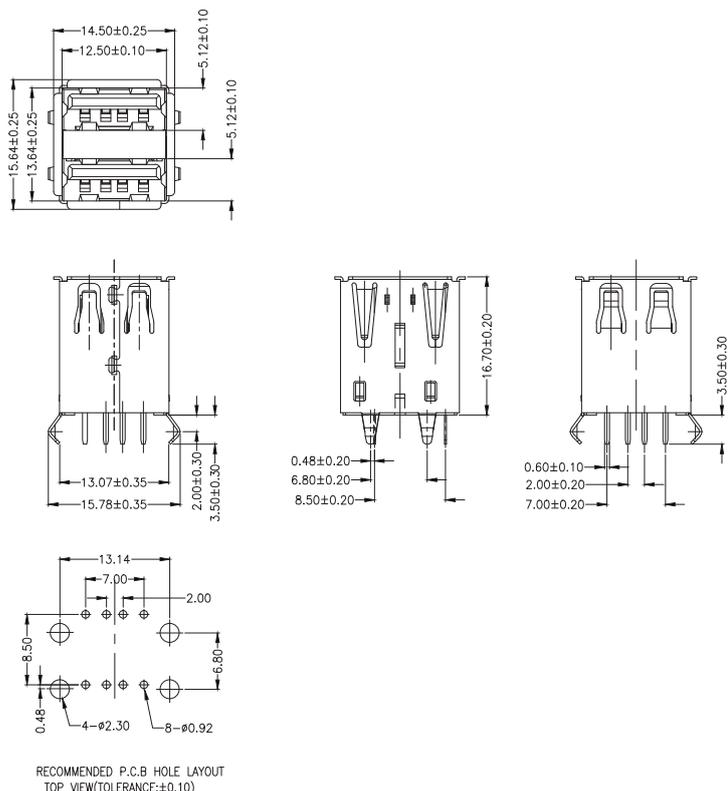


**U2AST21V1**



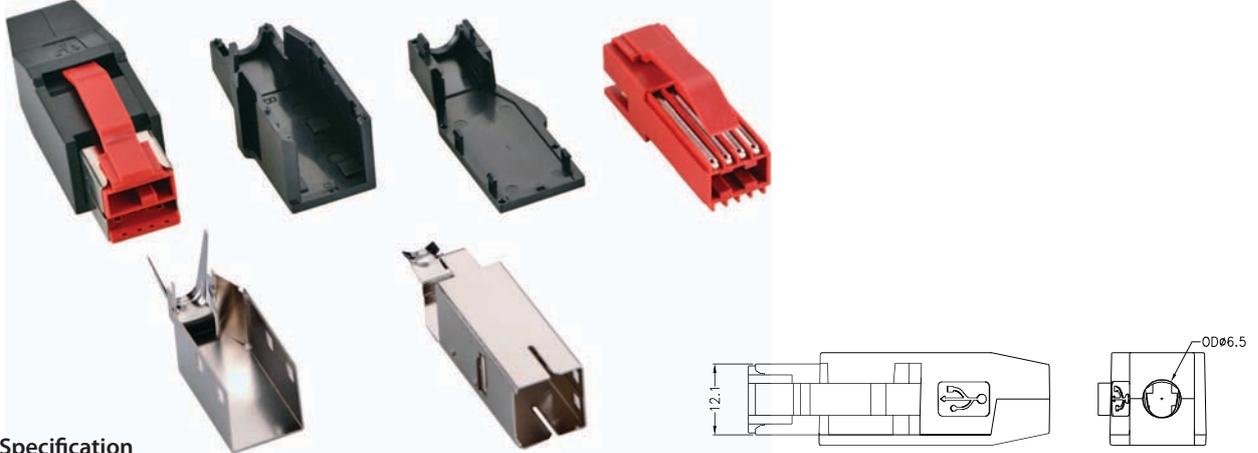
**Specification**

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.



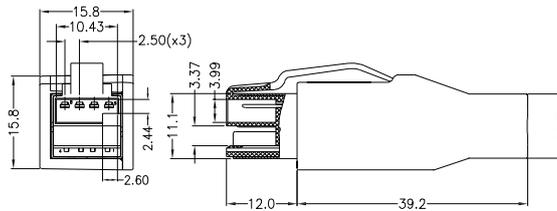
### USB 2.0 A Powered Plug and Jack

#### U2APP1

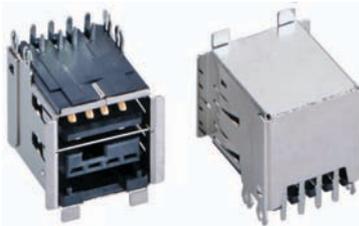


#### Specification

- Current Rating
  - Powered 3 A
  - USB 1 A
- Voltage Rating 12 V DC
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +85°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

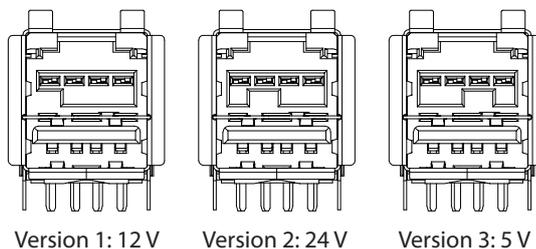
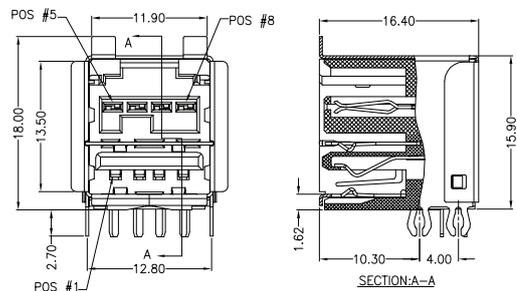
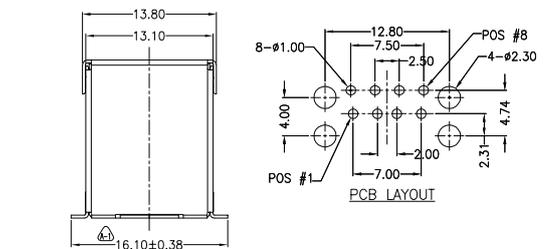


#### U2APTH1/2/3



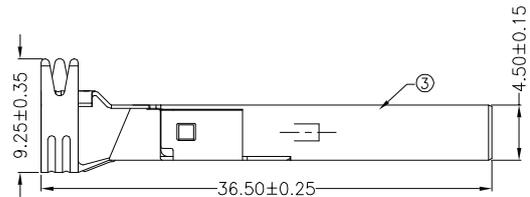
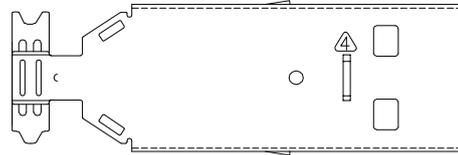
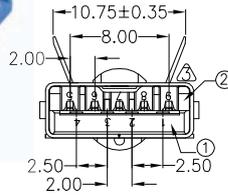
#### Specification

- Current Rating
  - Powered 3 A
  - USB 1 A
- Voltage Rating See Drawing
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +85°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.



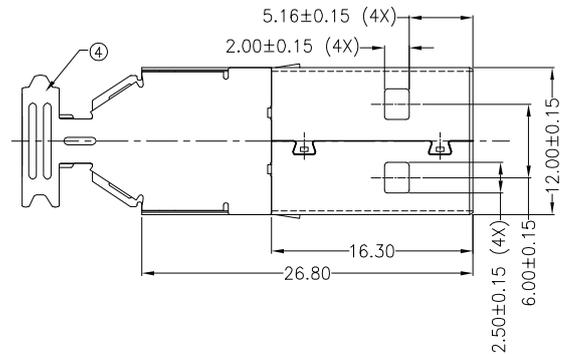
**USB 3.1 Gen 1 A Standard Plug**

U3ASP1



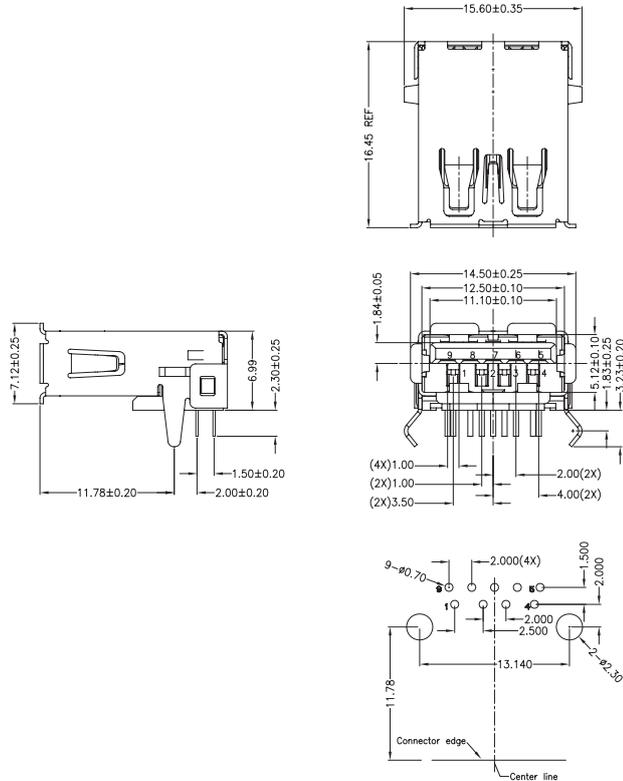
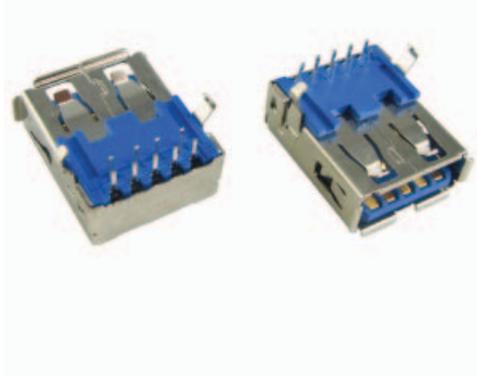
**Specification**

- Current Rating
  - 1.8 A for Pin 1 & Pin 4
  - 0.25 A for Other Contacts
- Voltage Rating
  - 30 V
- Insulation Resistance
  - 100 MΩ min.
- Contact Resistance
  - 30 mΩ max. for Pin 1 & Pin 4
  - 50 mΩ max. for Other Contacts
- Withstanding Voltage
  - 100 V AC
- Temperature Range
  - 20°C to +85°C
- Durability
  - 1,500 Cycles min.
- Insertion Force
  - 35 N max.
- Extraction Force
  - 10 N min.



### USB 3.1 Gen 1 A Standard Jacks

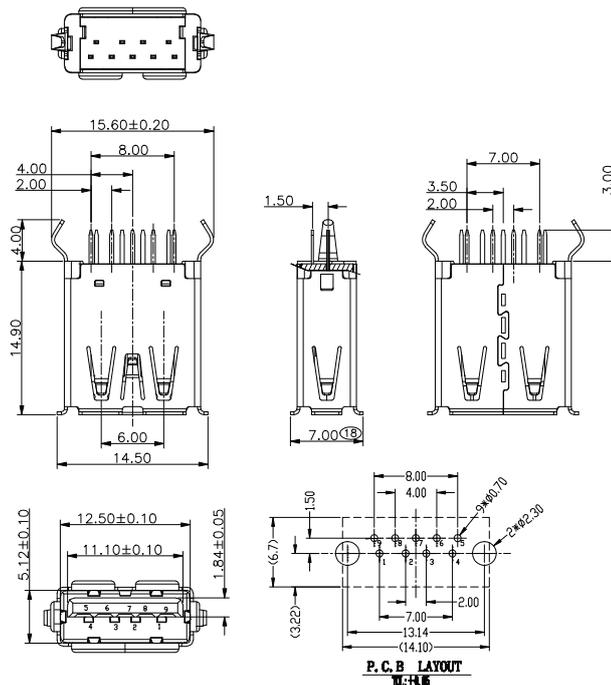
#### U3ASTH1



#### Specification

- Current Rating 1.8 A at 250 V AC
- Voltage Rating 30 V
- Insulation Resistance 100 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 100 V AC
- Temperature Range -25°C to +85°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

#### U3ASTV1



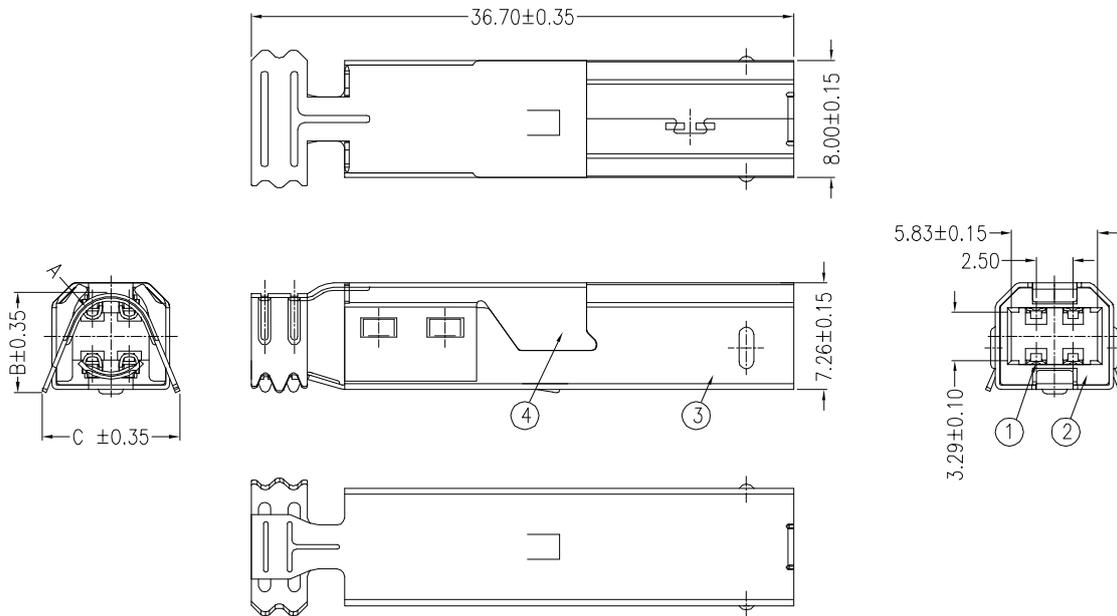
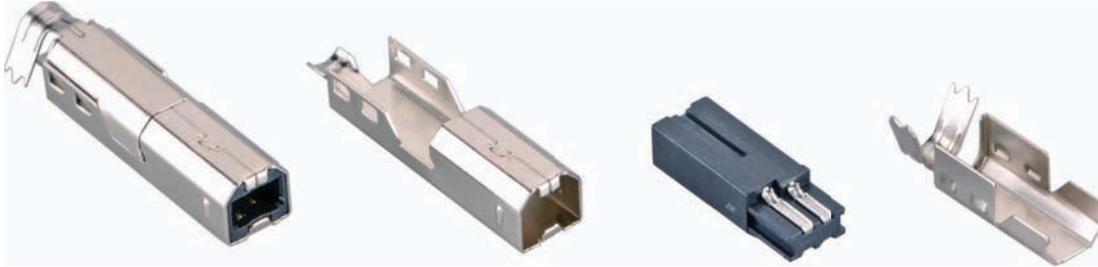
#### Specification

- Current Rating 1.5 A at 250 V AC
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 100 V AC
- Temperature Range -40°C to +85°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.



### USB 2.0 B Standard Plug

U2BSP1



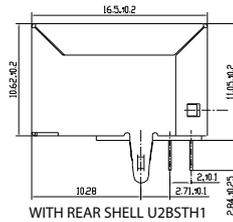
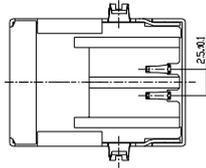
(A)	(B)	(C)
OD:5.0	6.8	9.5
OD:4.2	5.8	5.75

**Specification**

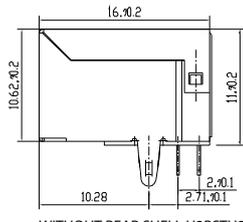
- Current Rating                    1.5 A
- Voltage Rating                    30 V
- Insulation Resistance            1,000 MΩ min.
- Contact Resistance              30 mΩ max.
- Withstanding Voltage            500 V AC
- Temperature Range              -20°C to +60°C
- Durability                         1,500 Cycles min.
- Insertion Force                    35 N max.
- Extraction Force                 10 N min.

**USB 2.0 B Standard Jacks**

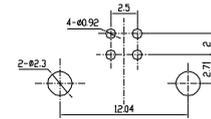
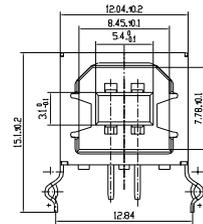
**U2BSTH1/ H2**



WITH REAR SHELL U2BSTH1



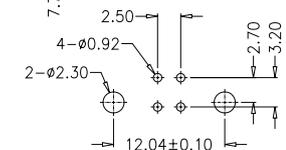
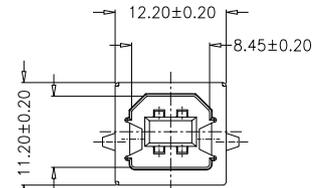
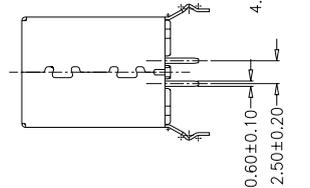
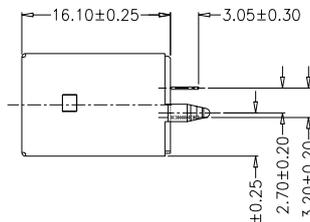
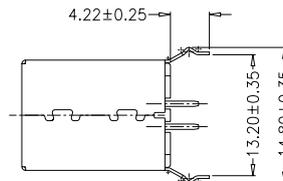
WITHOUT REAR SHELL U2BSTH2



**Specification**

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

**U2BSTV1**



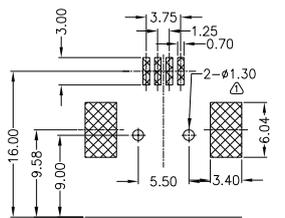
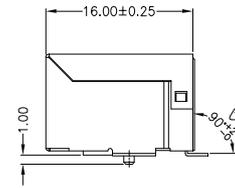
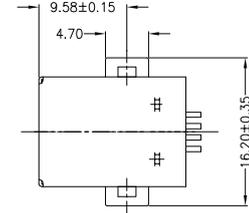
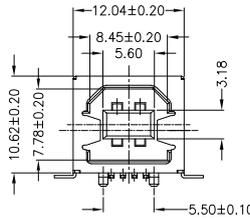
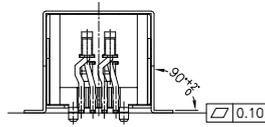
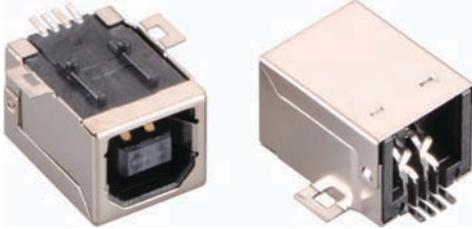
RECOMMENDED P.C.B. HOLE LAYOUT  
TOP VIEW (TOLERANCE: ±0.10)

**Specification**

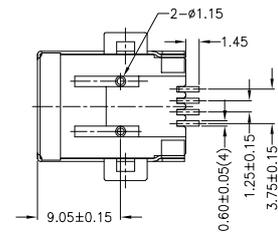
- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

### USB 2.0 B Standard Jacks

#### U2BSSH1



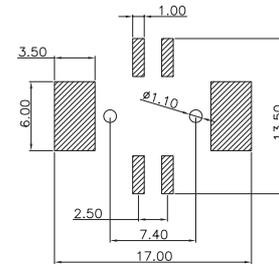
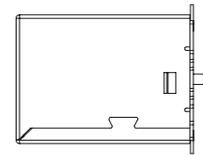
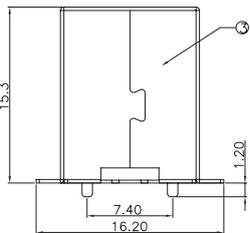
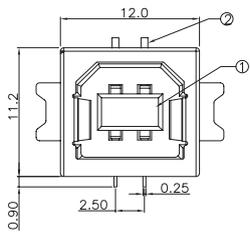
RECOMMENDED P.C.B HOLE LAYOUT  
TOP VIEW (TOLERANCE:±0.10)



#### Specification

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +60°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

#### U2BSSV1



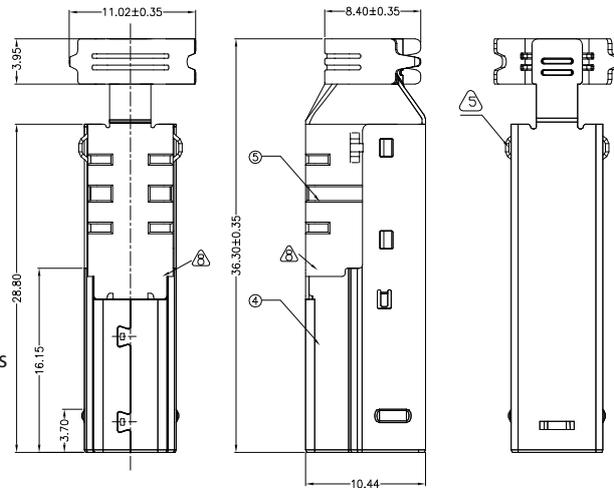
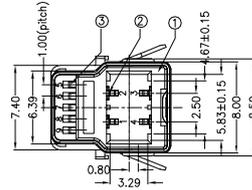
TOP VIEW  
PCB LAYOUT RECOMMENDED

#### Specification

- Current Rating 1 A
- Voltage Rating 30 V
- Insulation Resistance 100 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 500 V AC
- Temperature Range -20°C to +85°C
- Durability 1,500 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

**USB 3.1 Gen 1 B Standard Plug**

U3BSP1



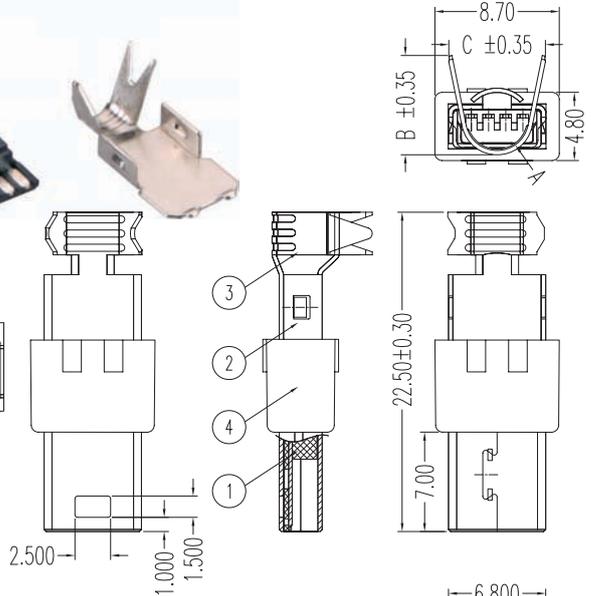
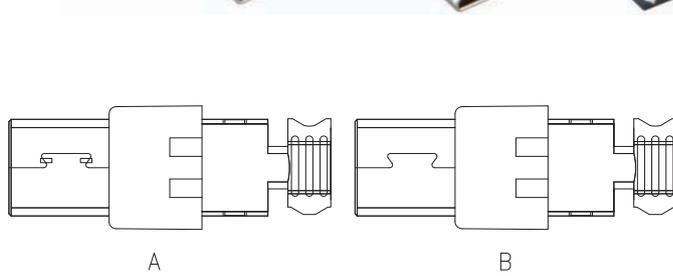
**Specification**

- Current Rating                    1.8 A for Pin 1 & Pin 4  
   0.25 A for Other Contacts
- Voltage Rating                    30 V
- Insulation Resistance            100 MΩ min.
- Contact Resistance              30 mΩ max. for Pin 1 & Pin 4  
   50 mΩ max. for Other Contacts
- Withstanding Voltage            100 V AC
- Temperature Range              -20°C to +85°C
- Durability                         1,500 Cycles min.
- Insertion Force                    35 N max.
- Extraction Force                 10 N min.



**USB 2.0 B Mini Plug**

U2BMP1

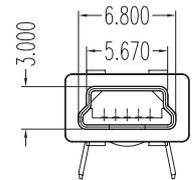


**Specification**

- Current Rating 1 A
- Voltage Rating 30 V
- Insulation Resistance 100 M $\Omega$  min.
- Contact Resistance 50 m $\Omega$  max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +60°C
- Durability 5,000 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

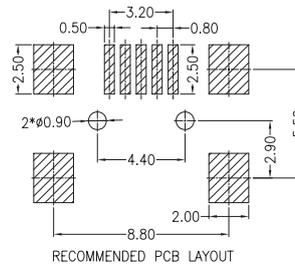
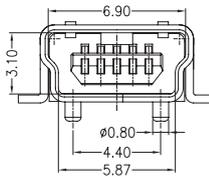
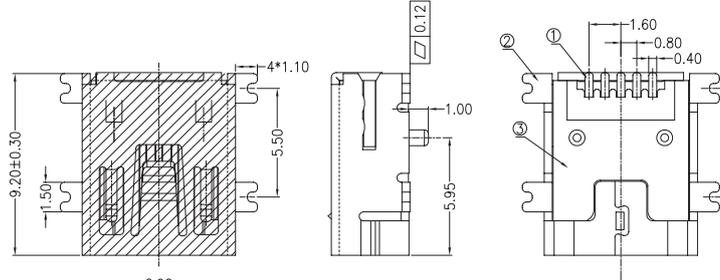
table 2

	(A)	(B)	(C)
OD:4.4		7.0	7.75
OD:3.4		6.15	6.5
$\Delta$ OD:5.0		7.0	9.0



### USB 2.0 B Mini Jacks 5 Pin

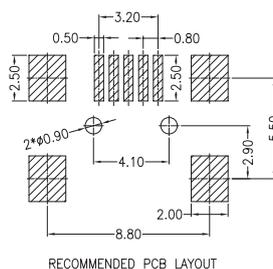
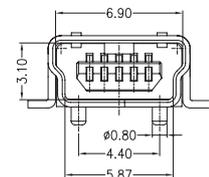
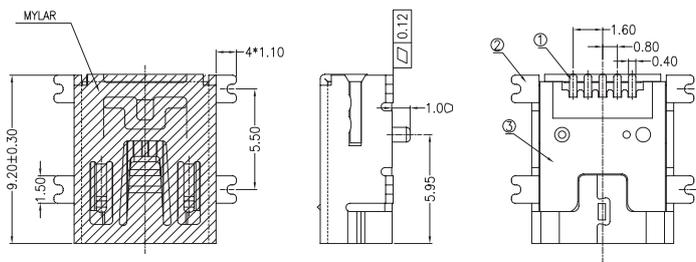
#### U2BMSH1



#### Specification

- Current Rating 1 A
- Voltage Rating 30 V
- Insulation Resistance 100 M $\Omega$  min.
- Contact Resistance 50 m $\Omega$  max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +60°C
- Durability 5,000 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

#### U2BMSH4

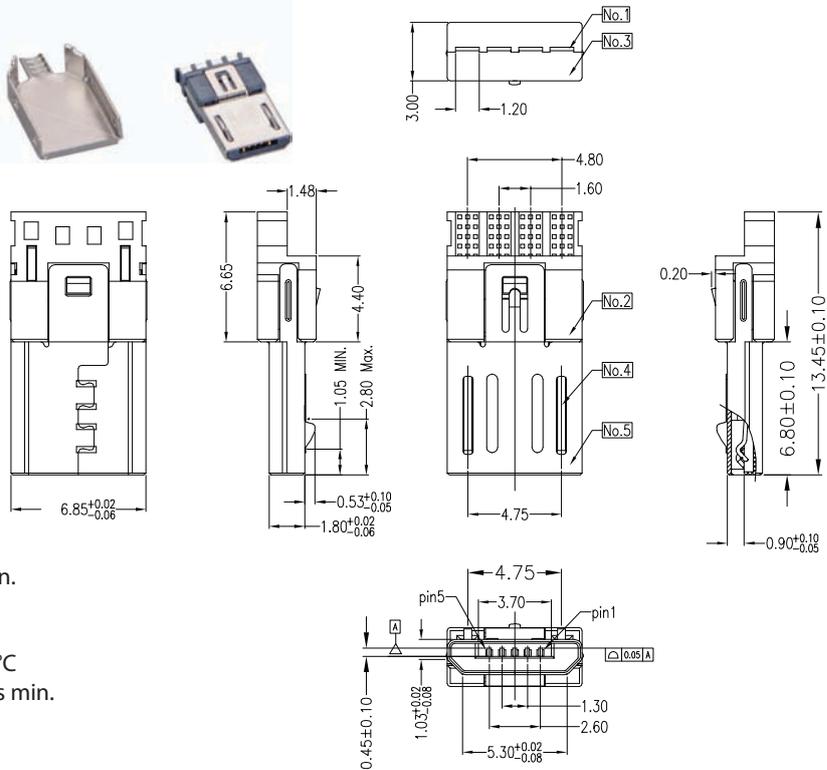


#### Specification

- Current Rating 1 A
- Voltage Rating 30 V
- Insulation Resistance 100 M $\Omega$  min.
- Contact Resistance 50 m $\Omega$  max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +60°C
- Durability 5,000 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 10 N min.

**USB 2.0 B Micro Plug 5 Pin for Solder**

U2BUP1

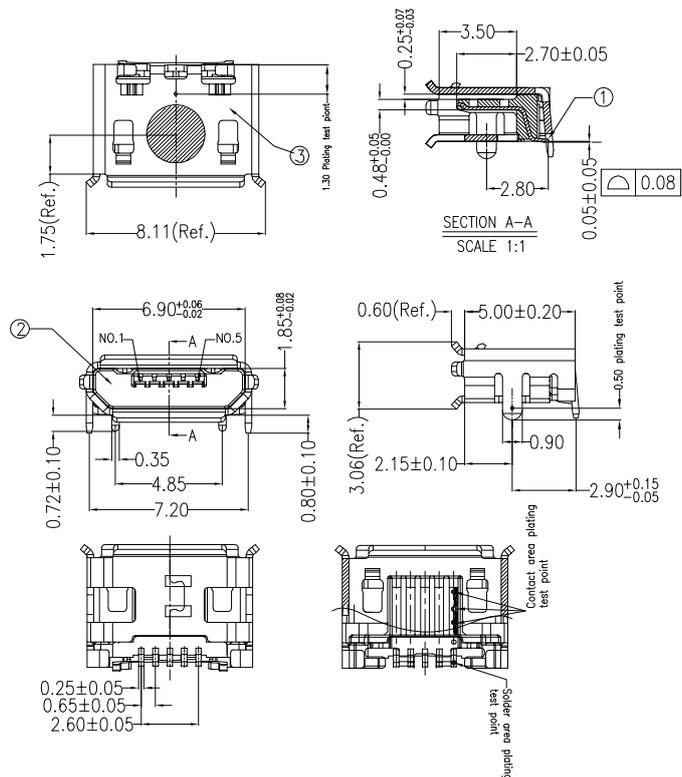


**Specification**

- Current Rating 1.5 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +85°C
- Durability 10,000 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 8 N min.

**USB 2.0 B Micro Jack SMT**

U2BUSH1

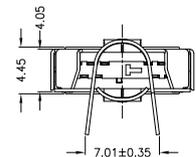
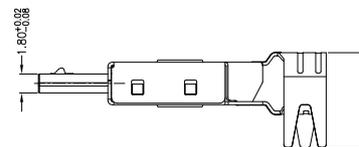
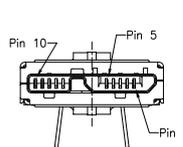
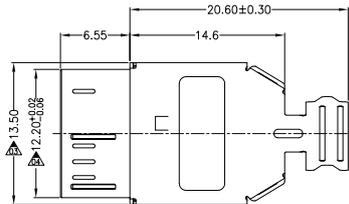
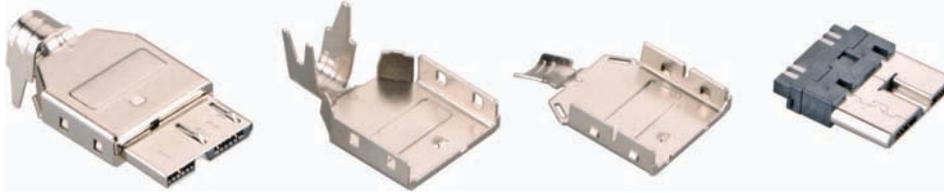


**Specification**

- Current Rating 1.8 A
- Voltage Rating 30 V
- Insulation Resistance 1,000 MΩ min.
- Contact Resistance 30 mΩ max.
- Withstanding Voltage 100 V AC
- Temperature Range -20°C to +85°C
- Durability 10,000 Cycles min.
- Insertion Force 35 N max.
- Extraction Force 8 N min.

### USB 3.1 Gen 1 B Micro Plug

U3BUP1

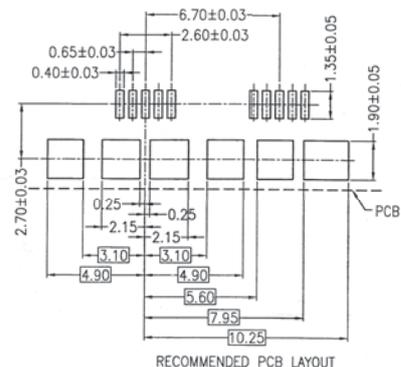
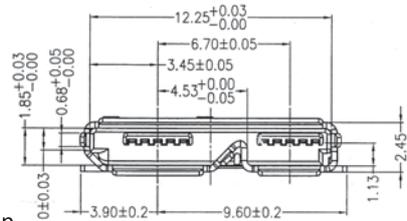
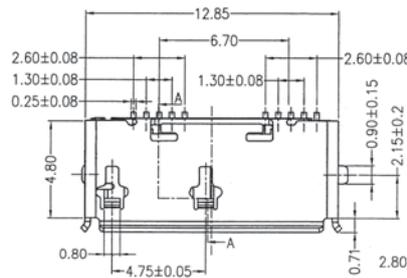


#### Specification

- Current Rating: 1.5 A
- Voltage Rating: 30 V
- Insulation Resistance: 100 MΩ min.
- Contact Resistance: 30 mΩ max.
- Withstanding Voltage: 500 V AC
- Temperature Range: -25°C to +85°C
- Durability: 10,000 Cycles min.
- Insertion Force: 35 N max.
- Extraction Force: 10 N min.

### USB 3.1 Gen 1 B Micro Jacks

U3BUSH1

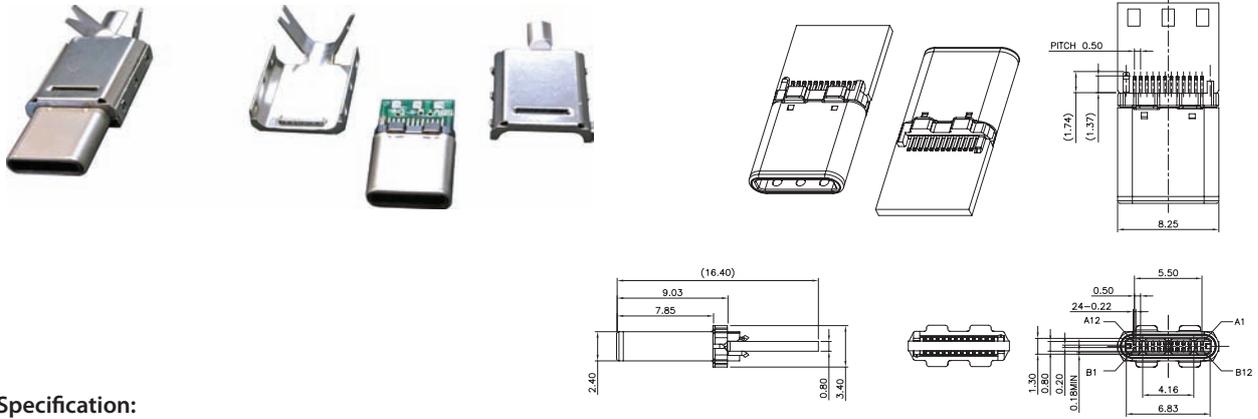


#### Specification

- Current Rating: 1.5 A
- Voltage Rating: 30 V
- Insulation Resistance: 100 MΩ min.
- Contact Resistance: 30 mΩ max.
- Withstanding Voltage: 100 V AC
- Temperature Range: -0°C to +50°C
- Durability: 10,000 Cycles min.
- Insertion Force: 35 N max.
- Extraction Force: 8 N min.

**USB 2.0 C Plugs**

**U2CP1**



**Specification:**

- Current Rating
- Contact Resistance

5 A for  $V_{BUS}$  Pin, 1.25 A for  $V_{CONN}$  Pin  
40 m $\Omega$  max. for initial  
10 m $\Omega$  change after test  
measure at 20 mV, 100 mA

- Insulation Resistance
- Withstanding Voltage
- Temperature Range
- Mechanical Characteristics

Insertion Force  
Extraction Force

5 - 20 N  
10 N min. initial;  
8 - 20 N after test  
10,000 cycles min.

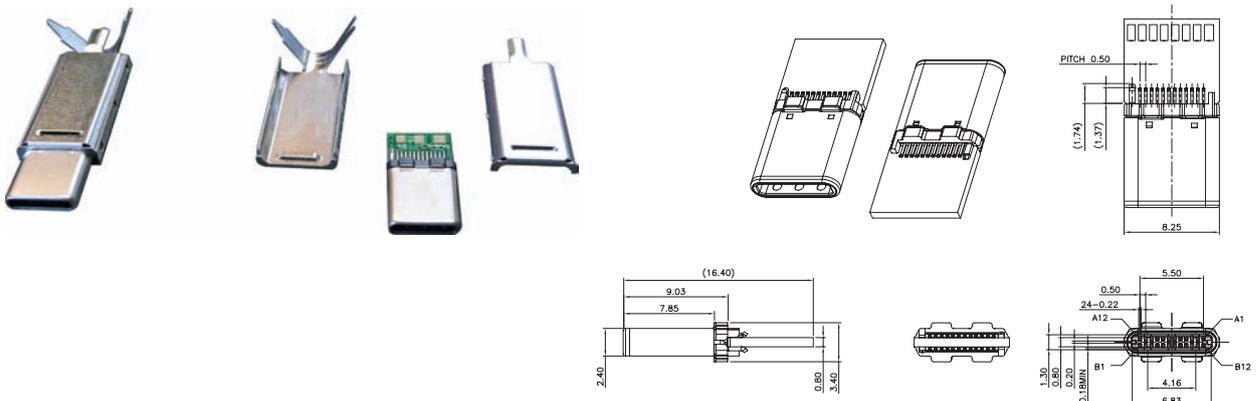
- Durability

Top Side

Bottom Side

Recommended PCBA  
Tolerance:  $\pm 0.05$  mm

**U2CP2**



**Specification:**

- Current Rating
- Contact Resistance

5 A for  $V_{BUS}$  Pin, 1.25 A for  $V_{CONN}$  Pin  
40 m $\Omega$  max. for initial  
10 m $\Omega$  change after test  
measure at 20 mV, 100 mA

- Insulation Resistance
- Withstanding Voltage
- Temperature Range
- Mechanical Characteristics

Insertion Force  
Extraction Force

5 - 20 N  
10 N min. initial;  
8 - 20 N after test  
10,000 cycles min.

- Durability

Top Side

Bottom Side

Recommended PCBA  
Tolerance:  $\pm 0.05$  mm





# COMPU-SHIELD® - USB TYPE C



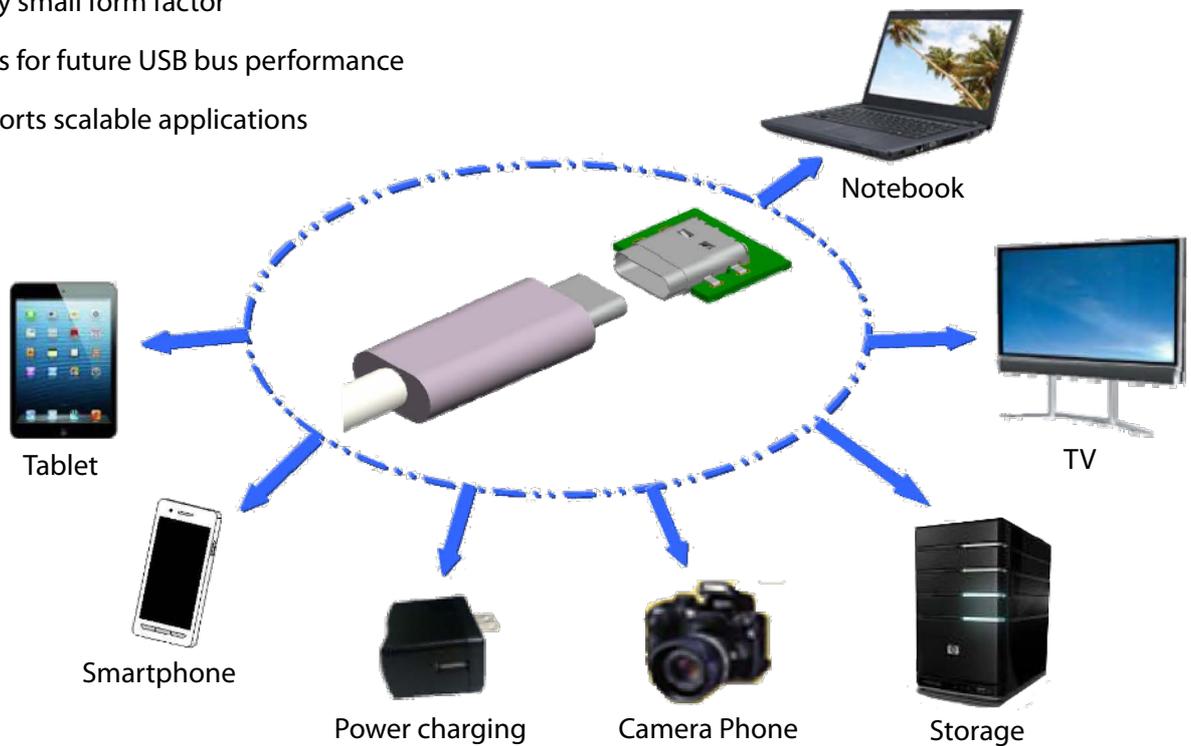
**INELCO®**  
THE DISTINCTION

18.08.2017

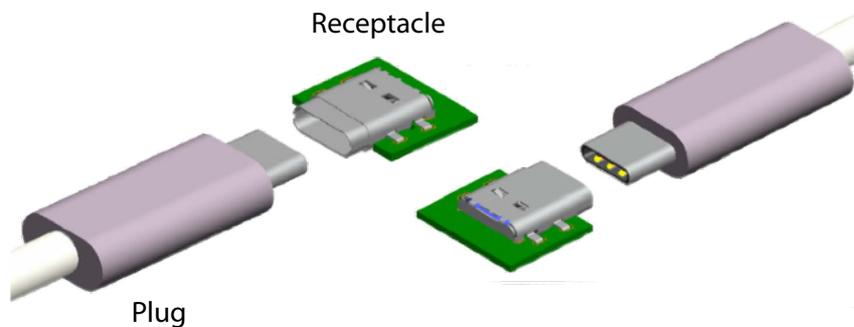


## Applications

- Newly small form factor
- Scales for future USB bus performance
- Supports scalable applications



## Overview of TECONN proposal

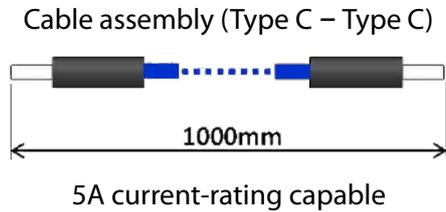
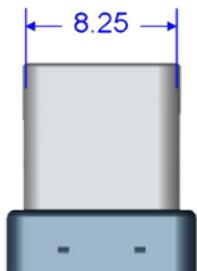
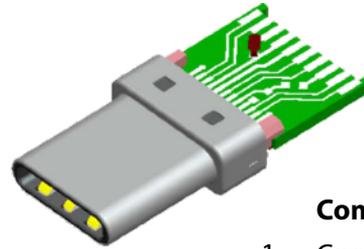
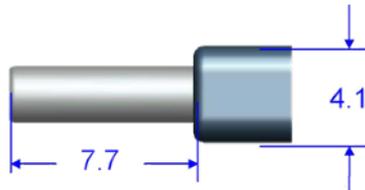


## Features

- Receptacle: 24 pins, Plug: 22 pins
- USB 3.1 signalling supported (5 Gbps in current support)
- User friendly reversible insertion
- No spring contact in Receptacle (consider the risk of damage for device)
- EMI countermeasure enhanced
- Power delivery supported (3A or 5A not yet determined)

**Concept**

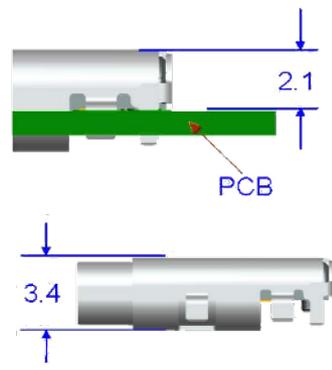
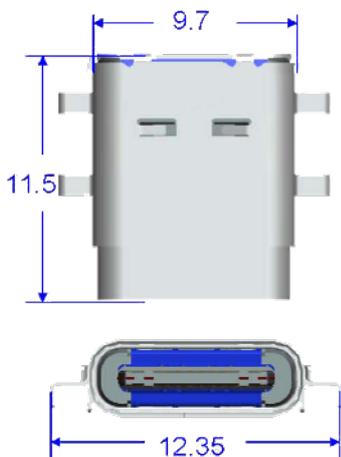
- USB 3.1 supported (full-featured)
- Paddle card recommended for cable assembly
- Contact terminal is soldered on paddle card



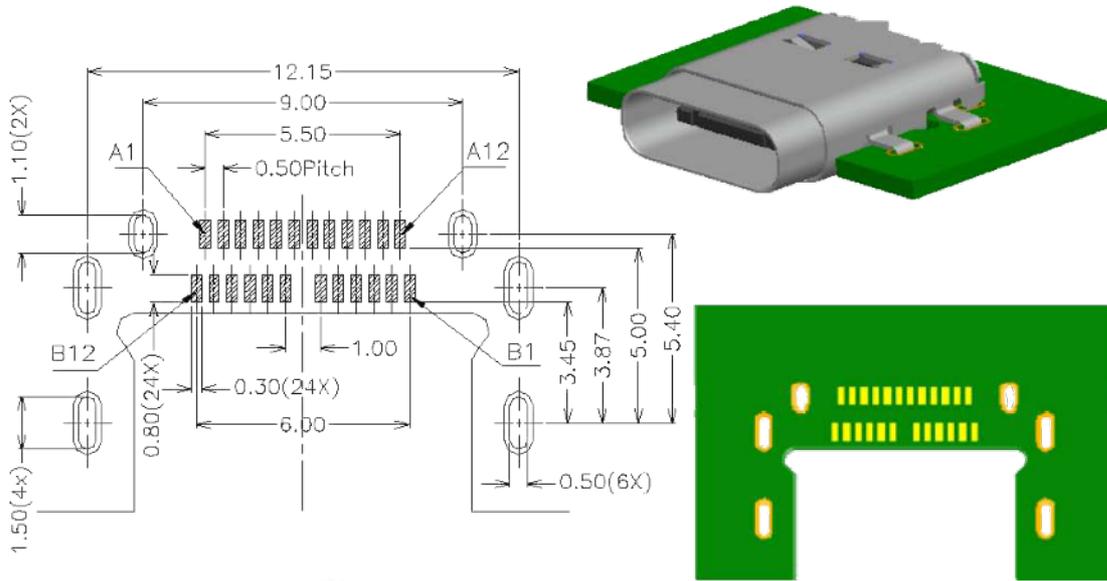
	<b>Component name</b>	<b>Q'ty</b>
1	Contact	22
2	GND spring	2
3	Latch	1
4	Shell (front)	1
5	Insulator	1
6	Inner molding (inside)	2
7	Insulation tape (inside)	2
8	Shield (inside)	1
9	Shell (middle outside)	1
10	Shell (back outside)	1
11	PCB	1

**Concept**

- USB 3.1 supported (full-featured)
- Mid-mount type
- Dual row SMT (contact) / DIP (shell & GND plane)



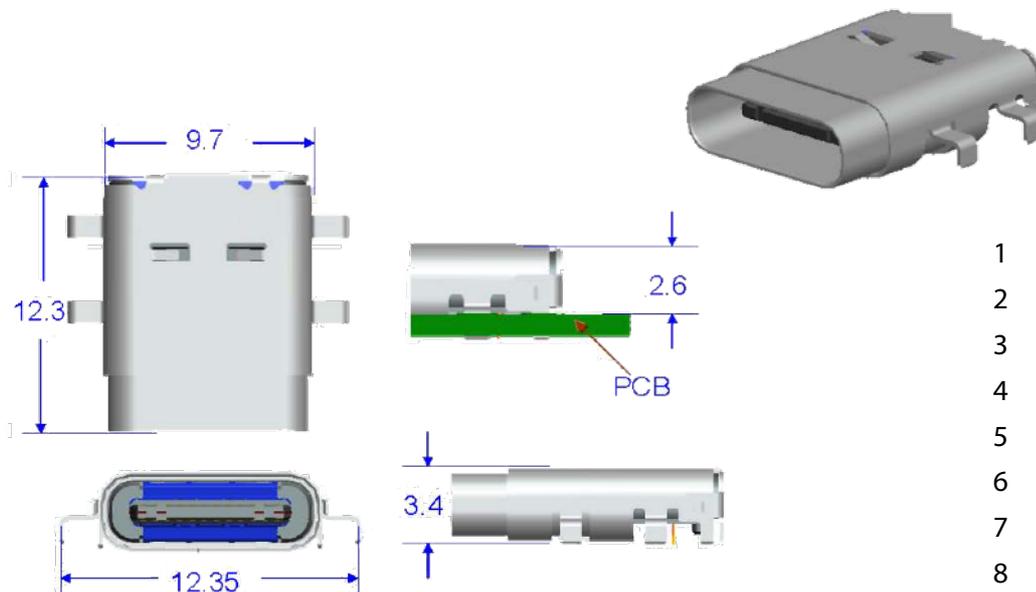
	<b>Component name</b>	<b>Q'ty</b>
1	Upper contact	12
2	Lower contact	12
3	GND plate (inside)	2
4	Shield plane (inside)	1
5	Shell-1	1
6	Shell-2	1
7	Insulator	1
8	Tap	1



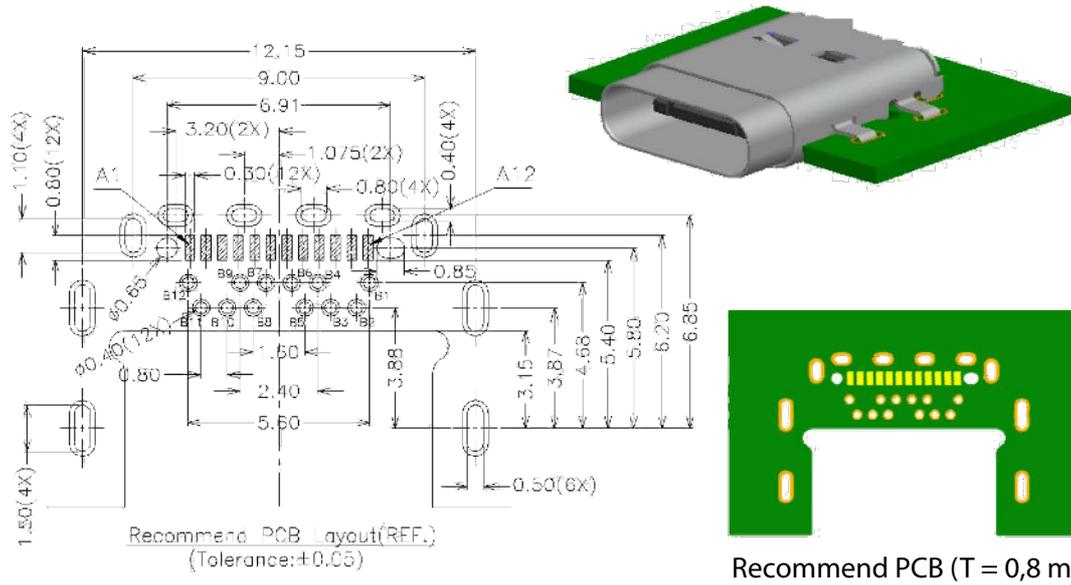
Recommend PCB (T = 0,8 m)

**Concept**

- USB 3.1 supported (full-featured)
- Mid-mount type
- Dual row DIP (contact) & SMT (contact)/ DIP (shell & GND plane)



	<b>Component name</b>	<b>Q'ty</b>
1	Upper contact	12
2	Lower contact	12
3	GND plate (inside)	2
4	Shield plane (inside)	1
5	Shell-1	1
6	Shell-2	1
7	Insulator	1
8	Tap-1	1
9	Tap-2	1

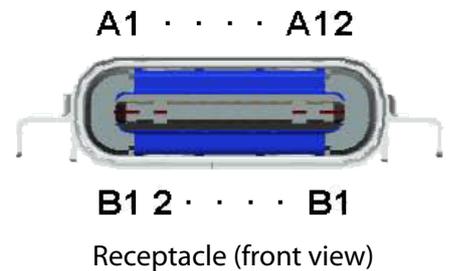


- TX\*\*/ RX\*\* Super speed differential pair (4 pairs)
- D\* USB 2.0 differential pair (1 pair)
- CC\* Configuration channel
- SBU\* Sideband use

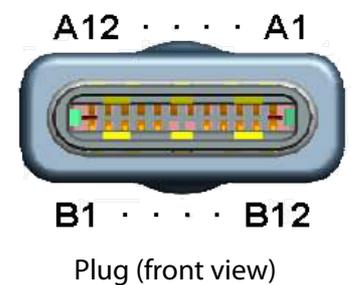
**Mating Sequence**

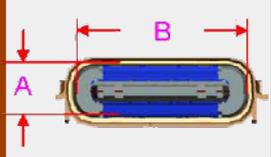
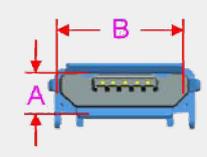
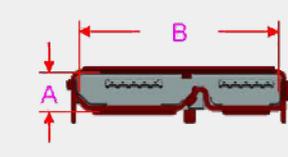
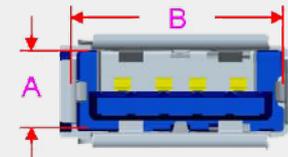
- First GND & VBUS (A1, A4, A9, A12, B1, B4, B9, B12)
- Second Other pins

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
GND	TX1+	TX1-	V <sub>BUS</sub>	CC1	D+	D-	SBU1	V <sub>BUS</sub>	RX2-	RX2+	GND
GND	RX1+	RX1-	V <sub>BUS</sub>	SBU2	D-	D+	CC2	V <sub>BUS</sub>	TX2-	TX2+	GND
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1



A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1
GND	RX2+	RX2-	V <sub>BUS</sub>	SBU1	D-	D+	CC	V <sub>BUS</sub>	TX1-	TX1+	GND
GND	TX2+	TX2-	V <sub>BUS</sub>	V <sub>CONN</sub>			SBU2	V <sub>BUS</sub>	RX1-	RX1+	GND
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12



Standard	USB 3.1 Type C	Micro USB 2.0	Micro USB 3.0	USB 3.0 A Standard
Pin Counts	24	5	10	9
Pitch	0,5 mm	0,65 mm	0,65 mm	2 & 2,5 mm
Contact Rows	2	1	1	2
Front View (Rec.)				
A (interior height)	2,54 mm	1,85 mm	1,85 mm	5,12 mm
B (interior width)	8,34 mm	6,92 mm	12,25 mm	12,5 mm
Data transmission rate	5 Gbps	480 Mbps	5 Gbps	5 Gbps

## COMPU-SHIELD® - PART NUMBERS

### USB

XXXX X X X X X X X X - O

Options:	Packing/ Printing, ...
Contact Plating	Gold 1 = 3 μ", 2 = 6 μ", 3 = 15 μ", 4 = 30 μ", 5 = 50 μ"
Shield Plating	T: Tin, N: Nickel
Shield Material	C: Copper Alloy, S: Stainless Steel
Housing Color	N: Nature, E: Ebony, W: White, B: Blue
Housing Material	L: LCP, P: PBT, A: ABS, T: PA6T, G: PA9T, F: FR52
Version Counter	1 - 9
Mounting on PCB	H: Horizontal, V: Vertical
Type of Connector	P: Plug For Jacks: T: THT, S: SMT, F: Fasten/ Solder, H: Hybrid

U	USB
2/ 3	Version (2.0/ 3.0 = 3.1)
A/ B/ C	Type of USB Connector
S/ P/ M/ X/ U/ 1/ 2	Standard/ Powered/ Mini 5 Pin / Mini 10 Pin/ Micro/ Generation