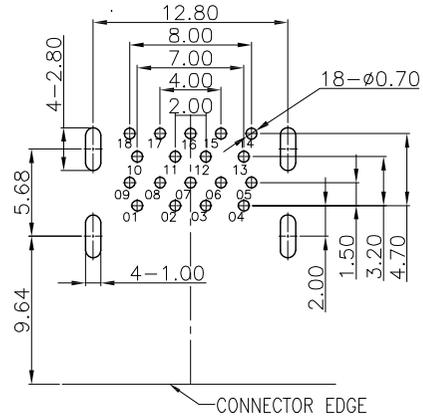
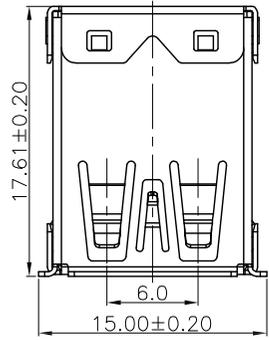
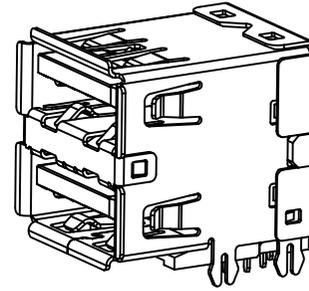


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2021/09/06	Ken Lin

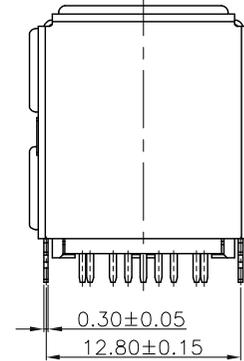
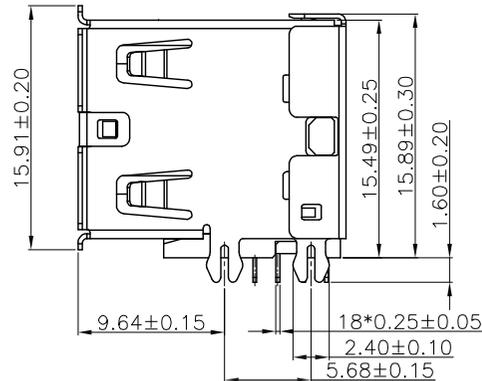
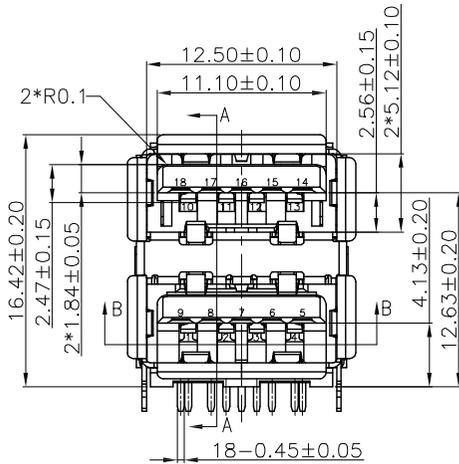


CONNECTOR EDGE  
RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)  
T=1.20±0.05mm, DEFAULT TOLERANCE: ±0.05

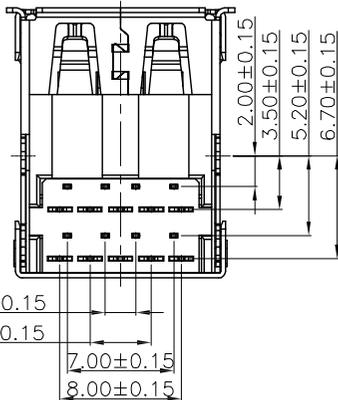
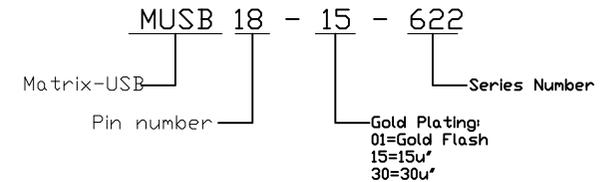


### NOTES:

- 1.0 Electrical performance:
- 1.1 Contact current rating:  
1.80 Amperes for VBUS and GND contacts  
0.25 Amperes for all other contacts
- 1.2 Dielectric withstanding voltage: AC 100V/minute
- 1.3 Insulation resistance: 100M ohms Min.
- 1.4 Contact resistance:  
30M ohm Max for VBUS and GND contacts  
50M ohm Max all other contacts
- 2.0 Mechanical performance:
- 2.1 Mating force: 35N Max.
- 2.2 Unmating force: 10N-25N.
- 2.3 Durability: 5000 cycles.
- 3.0 Environmental performance:
- 3.1 Temperature range:  
Operating temperature: -20°C TO +85°C
- 3.2 Storage temperature: -45°C TO +60°C
- 3.3 Salt spray 48h
- 3.4 Resistance to reflow soldering heat: 260°C +0/-5°C, 10s.
- 4.0 Material:
- 4.1 Housing: PA9T+30%GF, Color: Blue
- 4.2 Contact: 2.0 Contacts C5161 and 3.1 Contacts C2680(T=0.25)
- 4.3 Shell: SUS T=0.30
- 5.0 Plating:
- 5.1 Contact: Au 15u" plated on contact area  
Tin 100u" plated on solder area  
Nickel 50u" plated underplating over all.
- 5.2 Shell: nickel 50u" Min plated.



### MATRIX PART NO:



USB 2.0 CONTACT PINS			USB 3.0 CONTACT PINS		
Pin NUMBER	SIGNAL NAME		Pin NUMBER	SIGNAL NAME	
1	10	VBUS	5	14	StdA_SSRX-
2	11	D-	6	15	StdA_SSRX+
3	12	D+	7	16	GND_DRAIN
4	13	GND	8	17	StdA_SSTX-
Shell	Shield		9	18	StdA_SSTX+



## Matrix Electronics Co.,Ltd

<b>TOLERANCE:</b> X: X ±0.50 X: XX ±0.30 X: XXX ±0.20 X: XXXX ±0.15 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Ken Lin	2021/09/06	USB3.2 Gen2 Type-A 18pin DIP Female	
	CHECKED BY:	DATE :	PART NO.	MUSB18-15-622
	Hanson Huang	2021/09/06	MOLD NO.	NA
APPROVED BY1:	DATE :	DRAW NO.	SHEET NO.	1 OF 1
Richard Hsieh	2021/09/06			
APPROVED BY2:	DATE :			
Richard Hsieh	2021/09/06			

