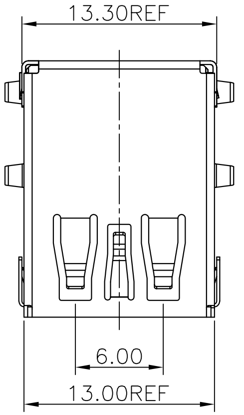
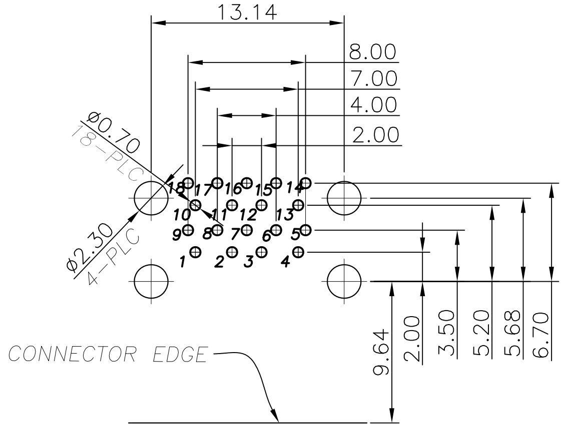
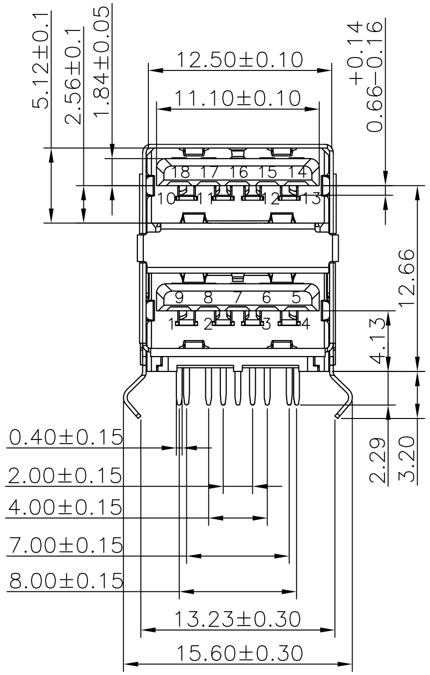
# GP Component

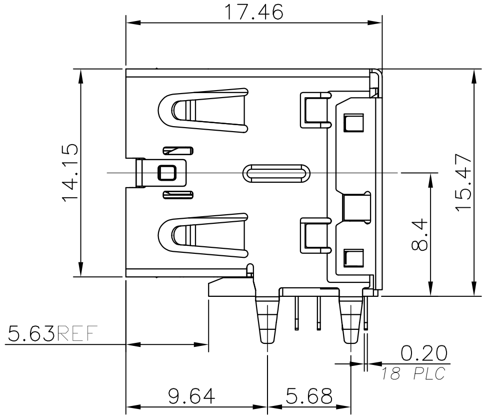
| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE | DESIGN |
|---|---|---|---|---|---|
| A0 | | | Initial | 2021/06/22 | Ken Lin |
| A1 | | | Change | 2021/06/28 | Ken Lin |

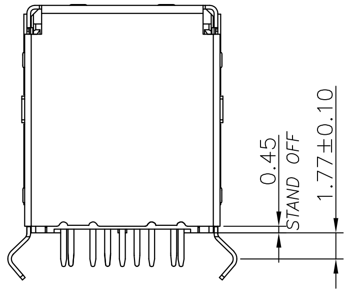




RECOMMENDED PCB LAYOUT (TOP VIEW)
TOLERANCE: ±0.05mm







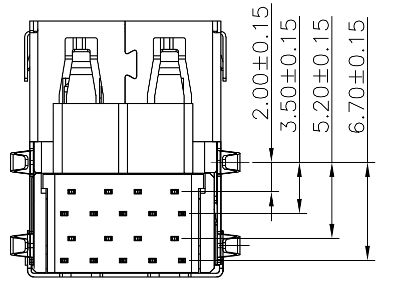
NOTES:
1.MATERIAL:
- 1.1 HOUSING: LCP UL 94V-0, COLOR: BLUE
- 1.2 2.0 CONTACT: C2680R-EH T=0.20mm
- 1.3 3.0 CONTACT: C2680R-EH T=0.20mm
- 1.4 SHELL: SUS201 T=0.25mm
- 1.5 MIDDLE SHELL: SUS201 T=0.20mm

2.FINISH:
- 2.1 CONTACT: GOLD FLASH (0.6u" Min) ON CONTACT AREA, 100u" TIN PLATED ON SOLDERTAILS, 50u" MIN. NICKEL UNDERPLATING OVER ALL.
- 2.2 SHELL: 80u" MIN.NICKEL UNDERPLATING OVER ALL.

3. ELECTRICAL :
- 3.1 CONTACT RESISTANCE: 30 mΩ(MAX) INITIAL FOR VBUS AND GND CONTACTS
  50 mΩ(MAX) INITIAL FOR OTHER CONTACTS
- 3.2 CURRENT RATING: 1.5Amps MAX PER PIN
- 3.3 DIELECTRIC WITHSTANDING VOLTAGE: 100V AC FOR 1 MINUTE.
- 3.4 INSULATION RESISTANCE: 1000 MΩ MIN

MATRIX PART NO:
MUSB 18 − 01 − 599

Matrix−USB
Pin number
Gold Plating:
01=Gold Flash(0.6u" MIN)
15=15u"
30=30u"
Series Number



| 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

| | | | | |
|---|---|---|---|---|
| TOLERANCE:<br>X. ±0.35<br>X.X ±0.25<br>X.XX ±0.20<br>X.XXX ±0.10<br>ANGLE: ±3° | DESIGN BY :<br>Ken Lin | DATE :<br>2021/06/28 | PART NAME: | USB 3.0 Double Stacked H=15.47mm CH=8.40mm |
| | CHECKED BY:<br>Janice Liu | DATE :<br>2021/06/28 | PART NO. | MUSB18−01−599 |
| UNIT: mm [inch] | APPROVED BY1:<br>Richard Hsieh | DATE :<br>2021/06/28 | MOLD NO. | NA |
| SCALE:1:1 SIZE:A4 | APPROVED BY2:<br>Richard Hsieh | DATE :<br>2021/06/28 | DRAW NO. | |
| | | | SHEET NO. | 1 OF 1 |