

| REV | SYM      | Revision Record     | Appr. | Date       |
|-----|----------|---------------------|-------|------------|
| V0  | KLS01640 | New Version Release | Song  | 2024-07-12 |
|     |          |                     |       |            |

A

B

C

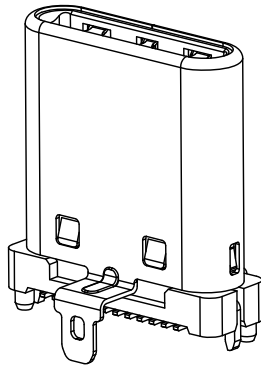
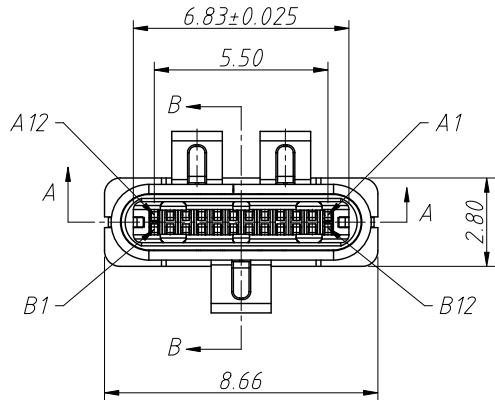
D

E

F

G

H



### Order Information

L-KLS1-5451-L1-01-R

RoHS

USB Type

Length:

L1=9.0,L2=11.1

Plating Code:

01=AU 1u" 03=AU 3u"

15=AU 15u" 30=AU 30u"

Packing:R=Reel

### NOTES:

#### 1.Material:

1-1.Housing&Pick Up Cover:LCP,UL 94 V-0

1-2.Contacts:Copper Alloy(C7025)

1-3.Latch:Stainless Steel(SUS301)

1-4.Spring:Stainless Steel(SUS304)

1-5.Front Shell:Stainless Steel(SUS304)

#### 2.Plating Specification:

2-1.Contacts:Ni 50u" Min.Under Plated Over All

Au Plated On The Functional Area Of Contact  
Tin Plated On The Solder Area

2-2.Front Shell:Ni 30u" Min Under Plated Over All

2-3.Latch:50u" Min.Ni Plated Under Plated Over All  
80u" Min.Tin Plated On Solder Area

2-4.Spring:Clear Only

#### 3.Mechanical:

3-1.Insertion Force:0.5~2.0kgf

3-2.Removal Force:0.8kgf~2.0kgf

3-3.Durability:10000 Cycles

#### 4.Electrical:

4-1.Current Rating:3 A

Voltage Rating:5.0V

4-2.LLCR:VBUS & GND Pins And Other Pins:40mΩ/Pin Max  
Shield: 50mΩ/Max

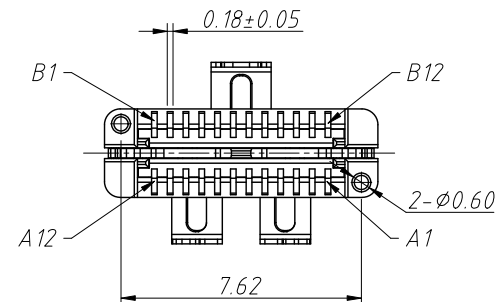
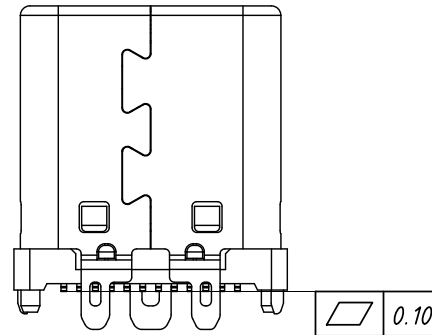
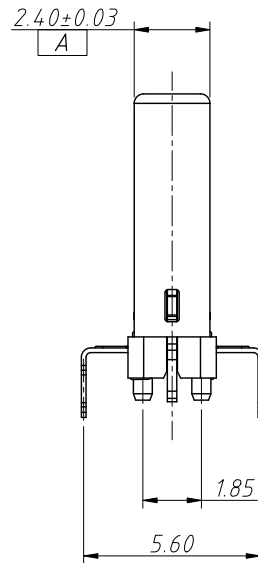
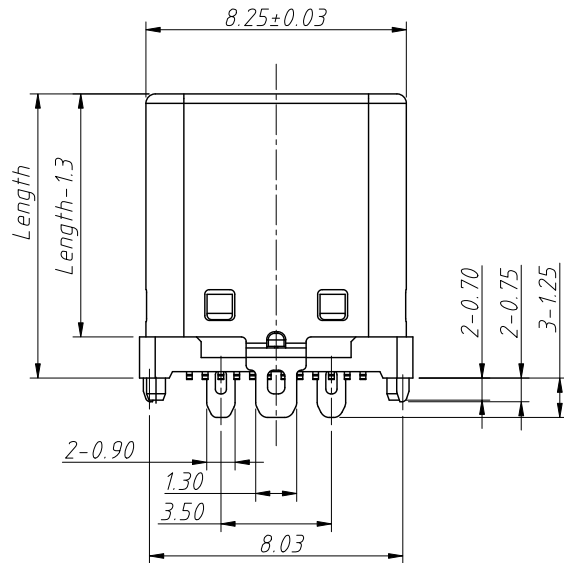
LLCR Max.Change Of All Pins:10mΩ

4-3.Insulation Resistance:100MΩ Min

4-4.Dielectric Withstand Voltage:AC 100V For 1 Minute

5.Operating Temperature: -25℃~+85℃

6.IR Reflow:The Peak Temperature On The Board Shall Be  
Maintained For 10 Seconds At 260℃



| ANGLE TOLERANCE   | PROJECTION | Description: | USB Connector |                                |
|-------------------|------------|--------------|---------------|--------------------------------|
| ±3°               |            |              |               |                                |
| GENERAL TOLERANCE | UNITS      | mm           | KLS P/N:      | L-KLS1-5451-LX-XX-R            |
| .X ±0.30          | SHEET SIZE | A4           | 1 of 3        | NingBo KLS ELECTRONIC CO.,LTD. |
| .XX ±0.20         | Draw:      | Song         | 2024-07-12    |                                |
| .XXX ±0.10        | Check:     | Daniel       | 2024-07-12    |                                |

A

B

C

D

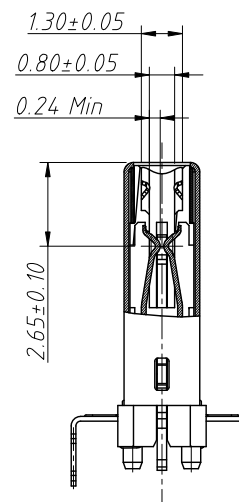
E

F

G

H

| <i>PIN</i> | <i>Signal Name</i> | <i>PIN</i> | <i>Signal Name</i> |
|------------|--------------------|------------|--------------------|
| <i>A1</i>  | <i>GND</i>         | <i>B12</i> | <i>GND</i>         |
| <i>A2</i>  | <i>SSTXp1</i>      | <i>B11</i> | <i>SSRXp1</i>      |
| <i>A3</i>  | <i>SSTXn1</i>      | <i>B10</i> | <i>SSRXn1</i>      |
| <i>A4</i>  | <i>VBUS</i>        | <i>B9</i>  | <i>VBUS</i>        |
| <i>A5</i>  | <i>CC1</i>         | <i>B8</i>  | <i>SBU2</i>        |
| <i>A6</i>  | <i>DP1</i>         | <i>B7</i>  | <i>DN2</i>         |
| <i>A7</i>  | <i>DN1</i>         | <i>B6</i>  | <i>DP2</i>         |
| <i>A8</i>  | <i>SBU1</i>        | <i>B5</i>  | <i>CC2</i>         |
| <i>A9</i>  | <i>VBUS</i>        | <i>B4</i>  | <i>VBUS</i>        |
| <i>A10</i> | <i>SSRXn2</i>      | <i>B3</i>  | <i>SSTXn2</i>      |
| <i>A11</i> | <i>SSRXp2</i>      | <i>B2</i>  | <i>SSTXp2</i>      |
| <i>A12</i> | <i>GND</i>         | <i>B1</i>  | <i>GND</i>         |



SECTION: A-A

9.50

5.20

Pick Up Cover

The Cut Is Random

Length+0.8±0.10

After With Pickup Cover



