

| REV | SYM      | Revision Record     | Appr. | Date       |
|-----|----------|---------------------|-------|------------|
| V0  | KLS01640 | New Version Release | Song  | 2024-07-10 |

A

B

C

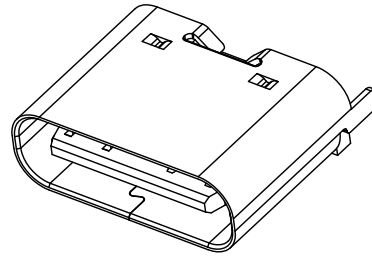
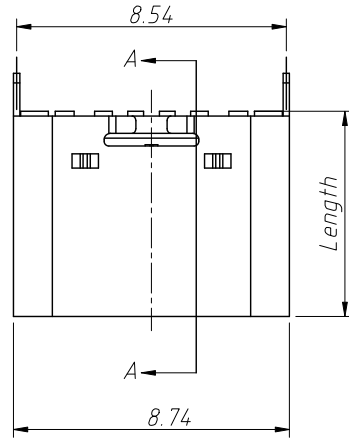
D

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G

H



### Order Information

L-KLS1-5425-L1-01-R

RoHS

USB Type

Length: L1=5.1

L2=5.5 L3= 6.5 L4= 6.8

Plating Code:

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

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

Packing: R=Reel

### NOTES:

#### 1.Material:

- 1-1.Housing:High Temperature Resistant Plastic,UL 94 V-0
- 1-2.Contacts:Copper Alloy
- 1-3.Mid Plate:Stainless Steel
- 1-4.Front Shell:Stainless Steel

#### 2.Plating Specification:

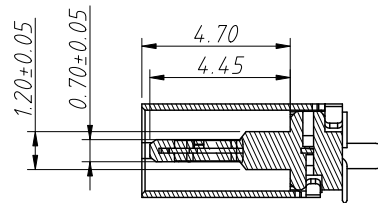
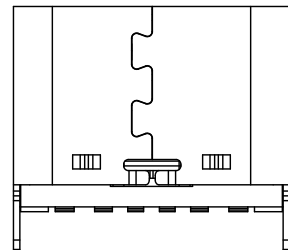
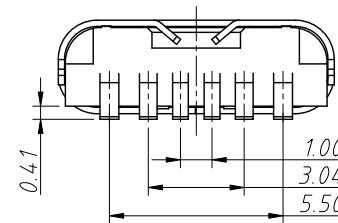
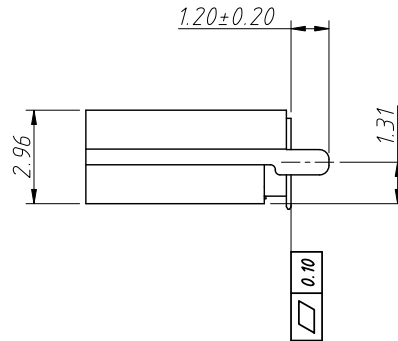
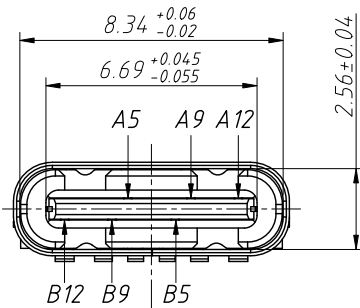
- 2-1.Contacts:Ni 50u" Min.Under Plated Over All  
Au Plated On The Functional Area Of Contact  
Au Plated On The Solder Area
- 2-2.Front Shell:Ni Plated Over All.
- 2-3.MID Plate:Clear Only

#### 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. Voltage Rating:5 V DC/AC (RMS. Max)  
Current Rating:3 A  
1.5AMPS Min For VBUS Pin,  
0.25 AMPS. For All Other Contact
- 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°C ~+85°C
- 6.IR Reflow:The Peak Temperature On The Board Shall Be Maintained For 10 Seconds At 260°C



SECTION:A-A

| ANGLE TOLERANCE   | PROJECTION | Description: | USB Connector |                                |
|-------------------|------------|--------------|---------------|--------------------------------|
| ±3°               |            |              |               |                                |
| GENERAL TOLERANCE | UNITS      | mm           | KLS P/N:      | L-KLS1-5425-LX-XX-R            |
| .X ±0.30          | SHEET SIZE | A4           | 1 of 3        | NingBo KLS ELECTRONIC CO.,LTD. |
| .XX ±0.20         | Draw:      | Song         | 2024-07-10    |                                |
| .XXX ±0.10        | Check:     | Daniel       | 2024-07-10    |                                |

A

B

C

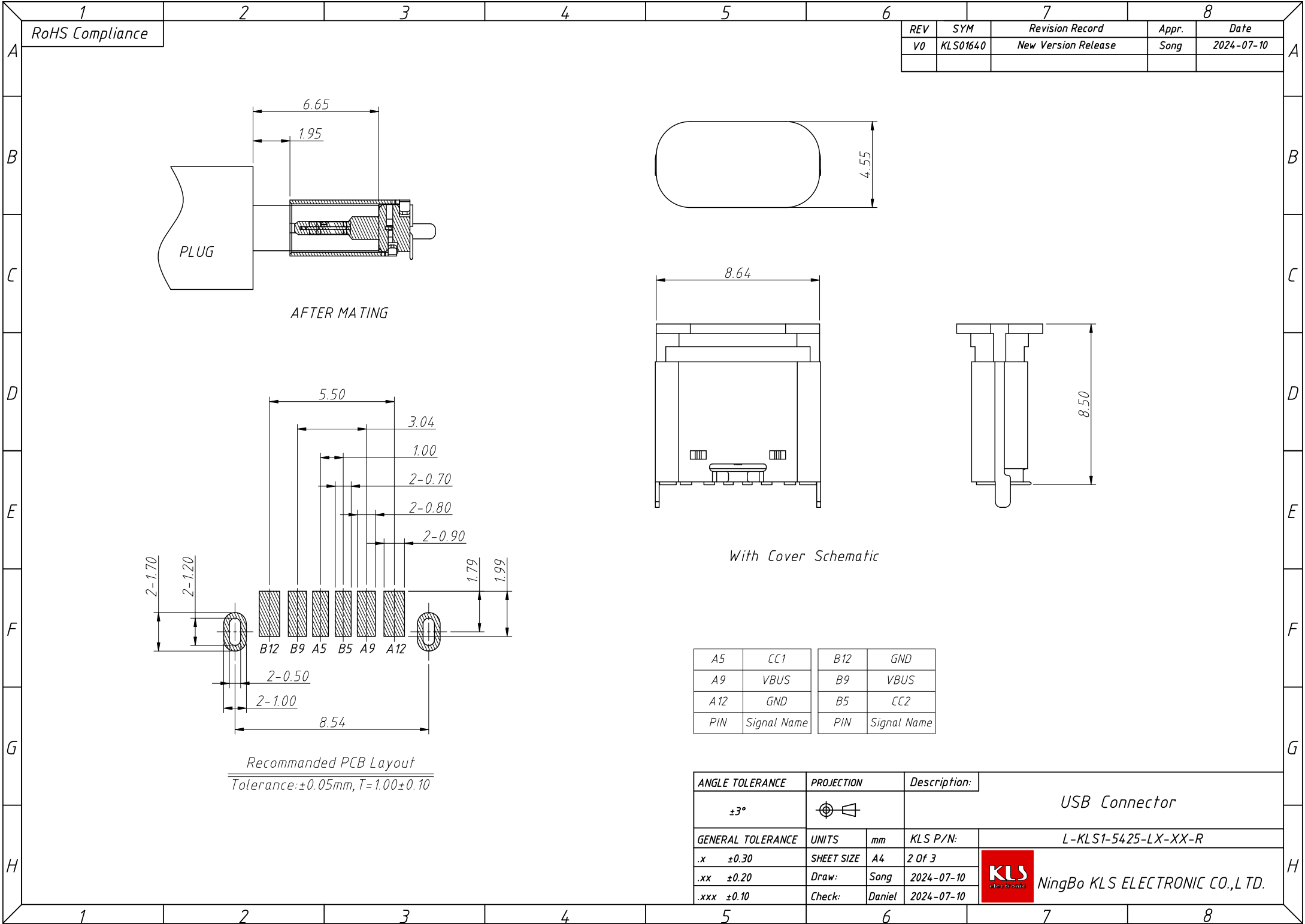
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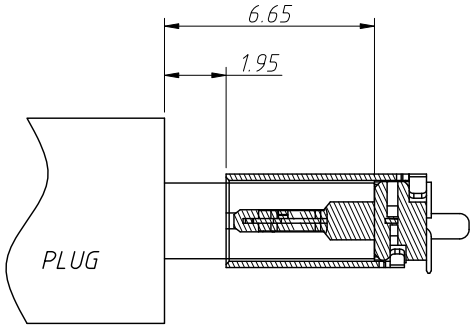
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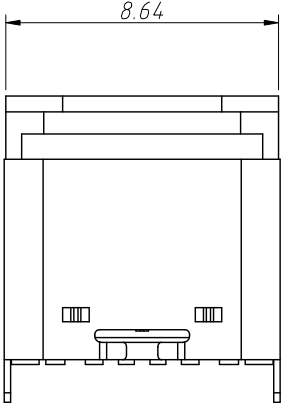
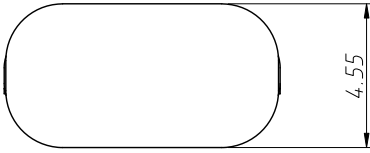


1  
RoHS Compliance

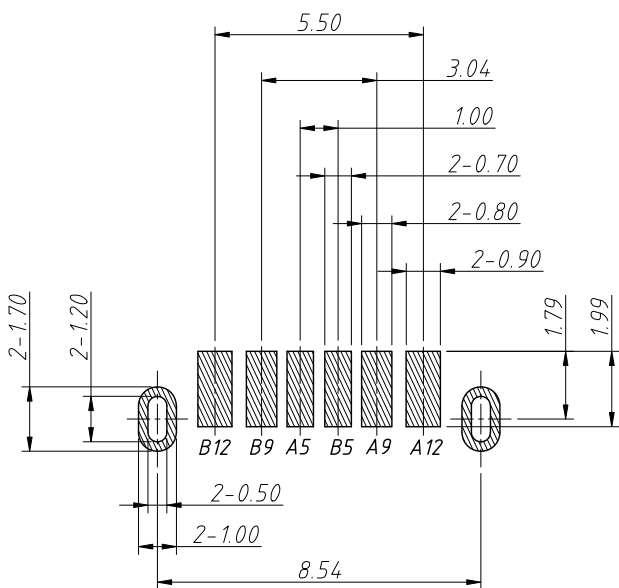
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|-----|----------|---------------------|--|-------|------------|
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|     |          |                     |  |       |            |



AFTER MATING



With Cover Schematic



Recommended PCB Layout  
Tolerance:±0.05mm, T=1.00±0.10

|     |             |     |             |
|-----|-------------|-----|-------------|
| A5  | CC1         | B12 | GND         |
| A9  | VBUS        | B9  | VBUS        |
| A12 | GND         | B5  | CC2         |
| PIN | Signal Name | PIN | Signal Name |

| ANGLE TOLERANCE   |       | PROJECTION |        | Description:  |                                 |
|-------------------|-------|------------|--------|---------------|---------------------------------|
| ±3°               |       |            |        | USB Connector |                                 |
| GENERAL TOLERANCE |       | UNITS      | mm     | KLS P/N:      | L-KLS1-5425-LX-XX-R             |
| .x                | ±0.30 | SHEET SIZE | A4     | 2 Of 3        | NingBo KLS ELECTRONIC CO.,L.TD. |
| .xx               | ±0.20 | Draw:      | Song   | 2024-07-10    |                                 |
| .xxx              | ±0.10 | Check:     | Daniel | 2024-07-10    |                                 |

