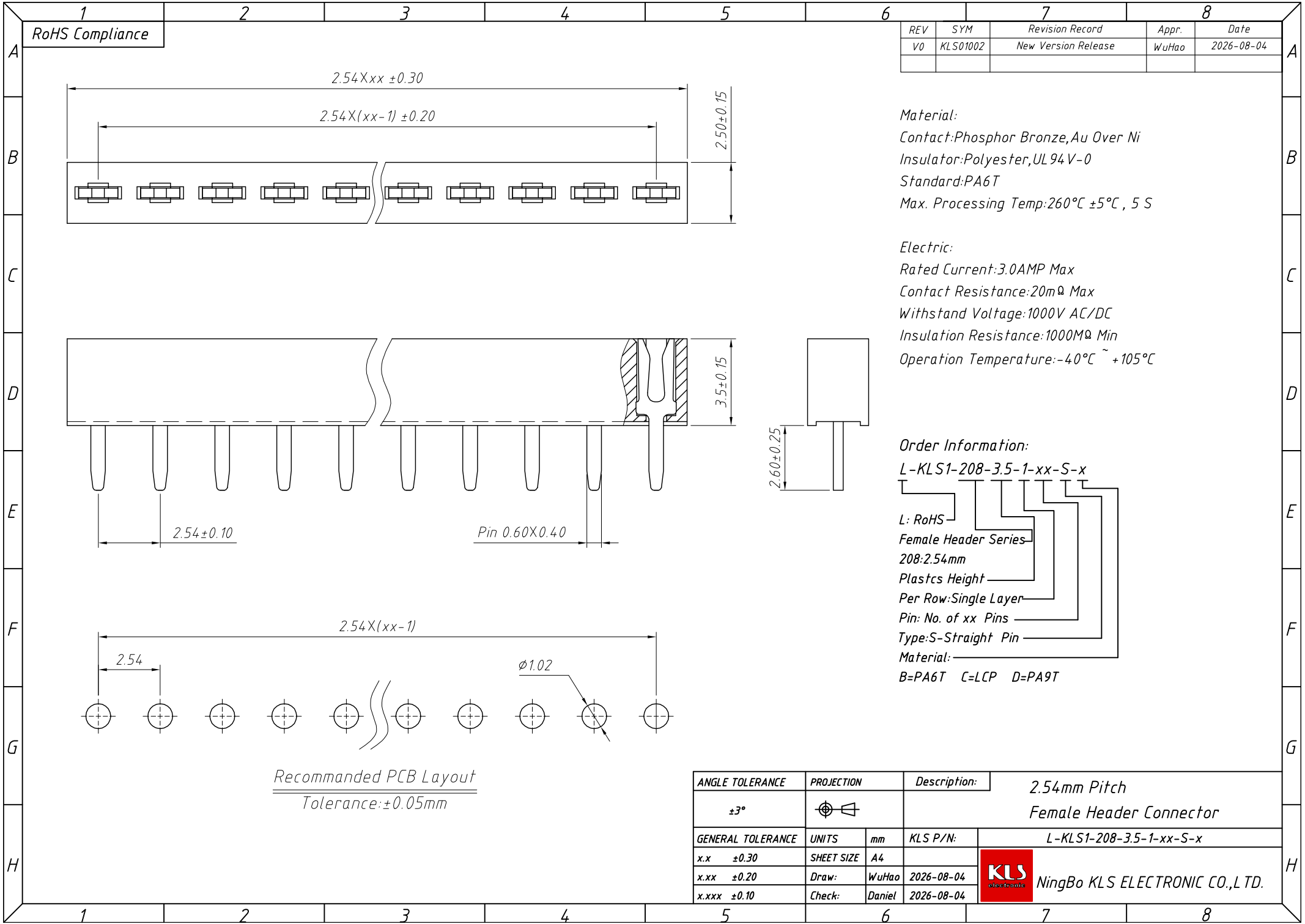




1  
RoHS Compliance

| 7   |          | 8                   |       |
|-----|----------|---------------------|-------|
| REV | SYM      | Revision Record     | Appr. |
| V0  | KLS01002 | New Version Release | WuHao |
|     |          | Date                |       |
|     |          | 2026-08-04          |       |

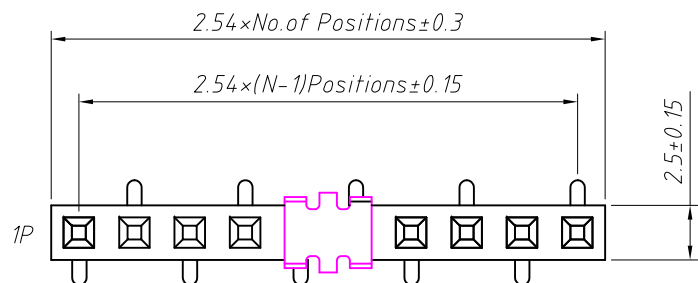
Material:  
Contact:Phosphor Bronze,Au Over Ni  
Insulator:Polyester,UL 94 V-0  
Standard:PA6T  
Max. Processing Temp:260°C ±5°C , 5 S

Electric:  
Rated Current:3.0AMP Max  
Contact Resistance:20mΩ Max  
Withstand Voltage:1000V AC/DC  
Insulation Resistance:1000MΩ Min  
Operation Temperature:-40°C ~ +105°C

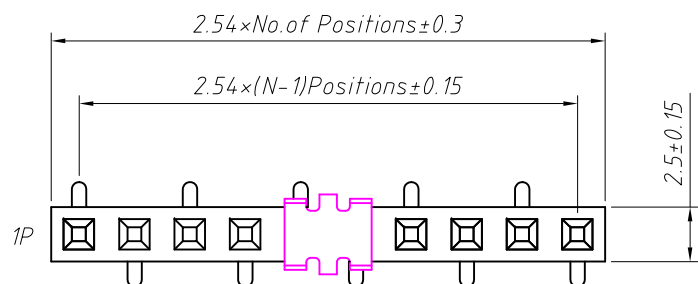
Order Information:  
L-KLS1-208-3.5-1-xx-S-x  
L: RoHS  
Female Header Series  
208:2.54mm  
Plastics Height  
Per Row:Single Layer  
Pin: No. of xx Pins  
Type:S-Straight Pin  
Material:  
B=PA6T C=LCP D=PA9T

Recommended PCB Layout  
Tolerance:±0.05mm

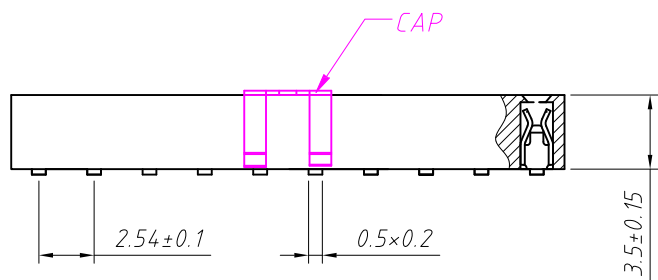
| ANGLE TOLERANCE   |       | PROJECTION |        | Description:                            |                                 |
|-------------------|-------|------------|--------|-----------------------------------------|---------------------------------|
| ±3°               |       |            |        | 2.54mm Pitch<br>Female Header Connector |                                 |
| GENERAL TOLERANCE |       | UNITS      | mm     | KLS P/N:                                |                                 |
| x.x               | ±0.30 | SHEET SIZE | A4     | L-KLS1-208-3.5-1-xx-S-x                 |                                 |
| x.xx              | ±0.20 | Draw:      | WuHao  | 2026-08-04                              | NingBo KLS ELECTRONIC CO.,L TD. |
| x.xxx             | ±0.10 | Check:     | Daniel | 2026-08-04                              |                                 |



T2 Type

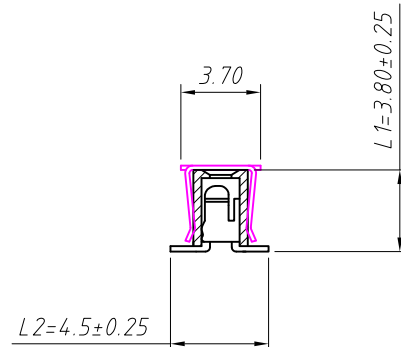
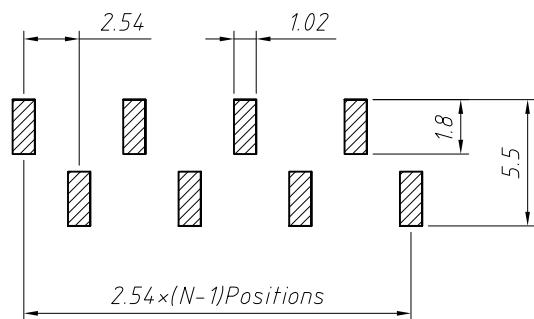
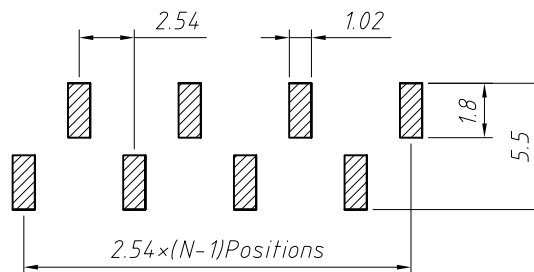


T1 Type



| Dimension antitheses list (mm) |      |      |                |
|--------------------------------|------|------|----------------|
| ITEM                           | L1   | L2   | Plastic Height |
| Standard                       | 3.80 | 4.50 | 3.50           |
| Nonstandard                    | ---  | ---  | ---            |

Recommended P.C.B Layout (Top Side)  
(PCB BOARD TOLERANCE ± 0.05)



**Material:**

Standard: PA6T

Contact: Brass

Contact plating: Au or Sn Over Ni

Insulator: Polyester, UL 94 V-0

**Electrical Characteristics:**

Rated Current: 3.0AMP

Contact Resistance: 20mΩ Max

Withstand Voltage: 1000V AC/DC

Insulator Resistance: 1000MΩ Min

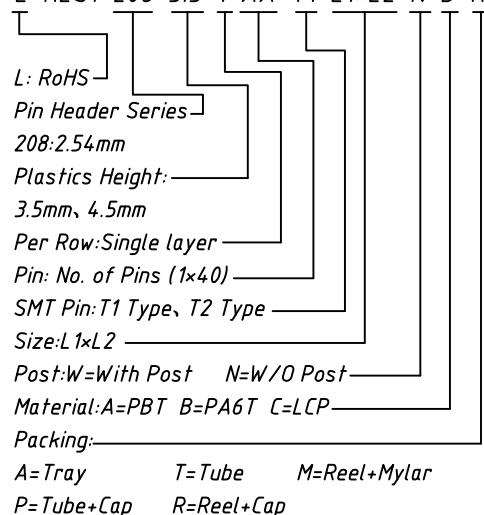
**Mechanical:**

Operating Temperature: -40°C ~ +105°C

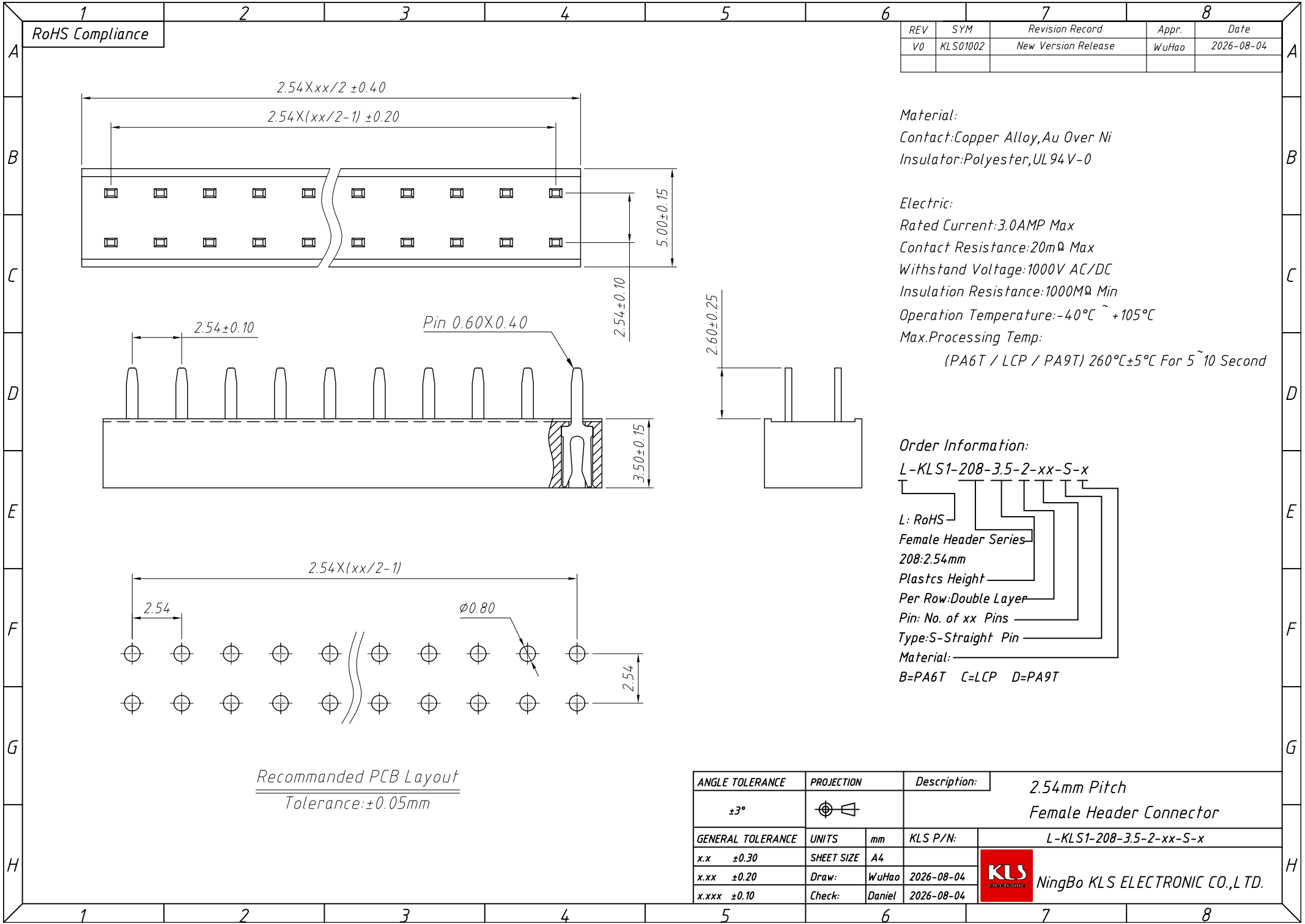
Max. Processing Temp: 230°C for 30-60 seconds  
(260°C for 10 seconds)

**Order Information:**

L-KLS1-208-3.5-1-XX-T1-L1xL2-N-B-R



| ANGLE TOLERANCE   |       | PROJECTION |    | Description:                             |  |
|-------------------|-------|------------|----|------------------------------------------|--|
| ±3°               |       |            |    | 2.54x3.5mm Female Header                 |  |
|                   |       |            |    | Single layer, SMT Mounting type, 1xN Pin |  |
| GENERAL TOLERANCE |       | UNITS      | mm | KLS P/N:                                 |  |
| x.x               | ±0.30 | SHEET SIZE |    | A4                                       |  |
| x.xx              | ±0.20 | Draw:      |    | Daniel                                   |  |
| x.xxx             | ±0.10 | Check:     |    | Daniel                                   |  |
|                   |       |            |    | L-KLS1-208-3.5-1-XX-T1-L1xL2-N-B-R       |  |
|                   |       |            |    | NingBo KLS ELECTRONIC CO.,L TD.          |  |

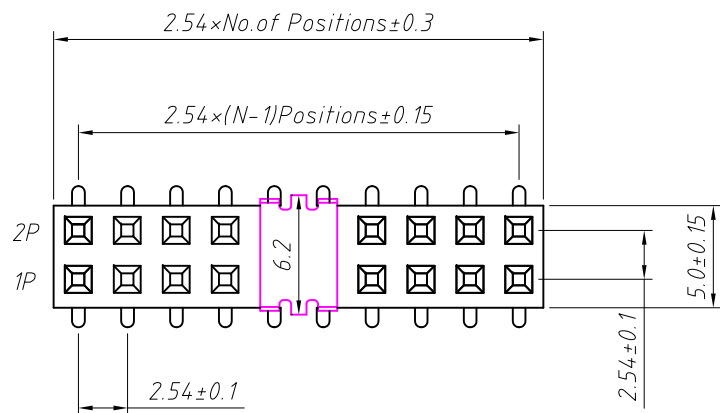


Recommended PCB Layout  
Tolerance:  $\pm 0.05\text{mm}$

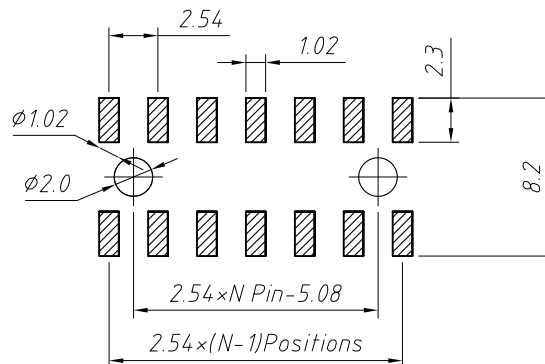
| ANGLE TOLERANCE   |            | PROJECTION | Description:                            |                         |
|-------------------|------------|------------|-----------------------------------------|-------------------------|
| $\pm 3^{\circ}$   |            |            | 2.54mm Pitch<br>Female Header Connector |                         |
| GENERAL TOLERANCE |            | UNITS      | mm                                      | KLS P/N:                |
| x.x               | $\pm 0.30$ | SHEET SIZE | A4                                      | L-KLS1-208-3.5-2-xx-S-x |
| x.xx              | $\pm 0.20$ | Draw:      | WuHao                                   | 2026-08-04              |
| x.xxx             | $\pm 0.10$ | Check:     | Daniel                                  | 2026-08-04              |



NingBo KLS ELECTRONIC CO.,LTD.



Recommended P.C.B Layout(Top Side)  
(PCB BOARD TOLERANCE±0.05)



Material:

Standard:PA6T

Contact: Brass

Plating: Au or Sn Over 50u" Ni

Insulator: Polyester, UL 94 V-0

Electrical Characteristics:

Rated Current: 3AMP

Contact Resistance: 20mΩ Max

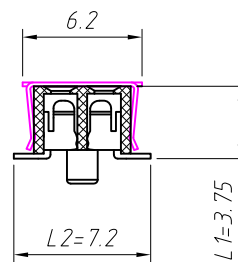
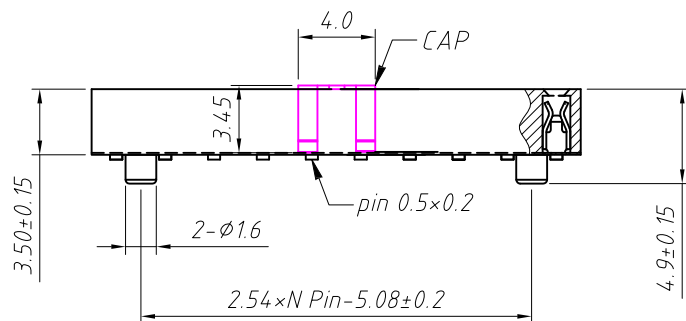
Withstand Voltage: 1000V AC/DC

Insulator Resistance: 1000MΩ Min

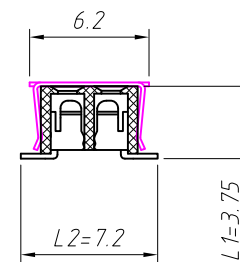
Mechanical:

Operating Temperature: -40°C~+105°C

Max.Processing Temp: 230°C for 30-60 seconds  
(260°C for 10 seconds)



W=With Post



T=W/O Post

Order Information:

L-KLS1-208-3.5-2-XX-T-L1xL2-B-R

L: RoHS

Pin Header Series

208:2.54mm

Plastics Height:3.5mm

Per Row:Double layer

Pin: No. of Pins (2x40)

SMT Pin:

T=Without Post, T3=With Post

Size:L1xL2

Material:A=PBT B=PA6T C=LCP

Packing:

A=Tray

T=Tube

M=Reel+Mylar

P=Tube+Cap

R=Reel+Cap

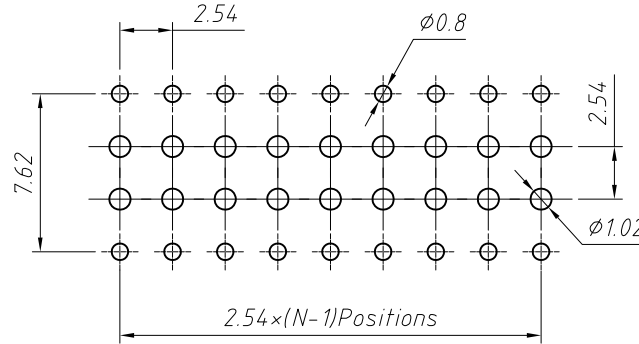
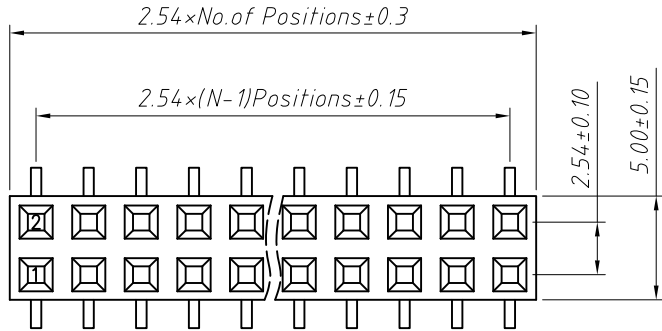
Dimension antitheses list (mm)

| ITEM        | L1   | L2   | Plastic Height |
|-------------|------|------|----------------|
| Standard    | 3.75 | 7.20 | 3.50           |
| Nonstandard | ---  | ---  | ---            |

| ANGLE TOLERANCE   | PROJECTION | Description:                                                         |                                 |
|-------------------|------------|----------------------------------------------------------------------|---------------------------------|
| ±3°               |            | 2.54x3.5mm Female Header<br>Double layer, SMT Mounting type, 2xN Pin |                                 |
| GENERAL TOLERANCE | UNITS      | mm                                                                   | KLS P/N:                        |
| x.x ±0.30         | SHEET SIZE | A4                                                                   | L-KLS1-208-3.5-2-XX-T-L1xL2-B-R |
| x.xx ±0.20        | Draw:      | Daniel                                                               | 2018-07-10                      |
| x.xxx ±0.10       | Check:     | Daniel                                                               | 2018-07-10                      |



NingBo KLS ELECTRONIC CO.,L TD.

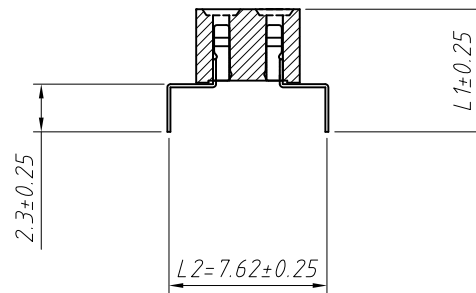
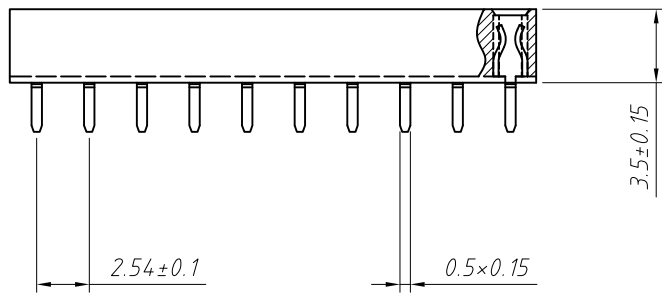


Recommended PCB Hole Layout

Material:  
Standard:PA6T  
Contact:Brass  
Plating:Au or Sn Over Ni  
Insulator:Polyester,UL94V-0

Electrical Characteristics:  
Rated Current: 3.0AMP  
Contact Resistance: 20mΩ Max  
Withstand Voltage: 1000V AC/DC  
Insulator Resistance: 1000MΩ Min

Mechanical  
Operating Temperature: -40°C~+105°C  
Max.Processing Temp:230°C for 30-60  
seconds (260°C for 10 seconds)



Order Information:

L-KLS1-208-3.5-2-XX-W-L1xL2-B-A

L: RoHS  
Pin Header Series  
208:2.54mm  
Plastics Height:  
3.5mm, 4.5mm  
Per Row:Double layer  
Pin: No. of Pins (2x40)  
Type:Bottom Entry  
Size:L1xL2  
Material:A=PBT B=PA6T C=LCP  
Packing:A=Tray T=Tube

Dimension antitheses list (mm)

| ITEM        | L1  | L2   | Plastic Height |
|-------------|-----|------|----------------|
| Standard    | --- | 7.62 | 3.50           |
| Nonstandard | --- | ---  | ---            |

| ANGLE TOLERANCE   |       | PROJECTION |        | Description:                                                  |                                     |
|-------------------|-------|------------|--------|---------------------------------------------------------------|-------------------------------------|
| ±3°               |       |            |        | 2.54x3.5mm Female Header<br>Double layer,Bottom Entry,2xN Pin |                                     |
| GENERAL TOLERANCE |       | UNITS      | mm     | KLS P/N:                                                      |                                     |
| x.x               | ±0.30 | SHEET SIZE | A4     | L-KLS1-208-3.5-2-XX-W-L1xL2-B-A                               |                                     |
| x.xx              | ±0.20 | Draw:      | Daniel | 2018-07-10                                                    | <br>NingBo KLS ELECTRONIC CO.,L TD. |
| x.xxx             | ±0.10 | Check:     | Daniel | 2018-07-10                                                    |                                     |