

REV	SYM	Revision Record	Appr.	Date
V0	KLS01323	New Version Release	Song	2026-09-14

Material

Housing:Hing Temperature Thermoplastic,UL 94 V-0 LCP,Black/White.

Contact:Copper Alloy C2680.

Shell:Copper Alloy C2680/SPCC.

Finish:

Contact:Plated Gold In Mating Area,Tin On Solder Talls.

Shell:Nickel Plating

Electrical:

Current Rating:1.5A/Contact Terminal.

Voltage Rating:30V DC

Contact Resistance:30milliohms Max

Dielectric Withstanding Voltage:500 V AC AT Sea Level

Insulation Resistance:1000MEGA ohms Min

Connector Mate and Unmated Force

Mate Force:3.75kgf Max

Unmated Force:1.02kgf Min

Terminal Retenion:1.2kgf Min

Order Information

L-KLS1- 181E- x

RoHS

USB Series

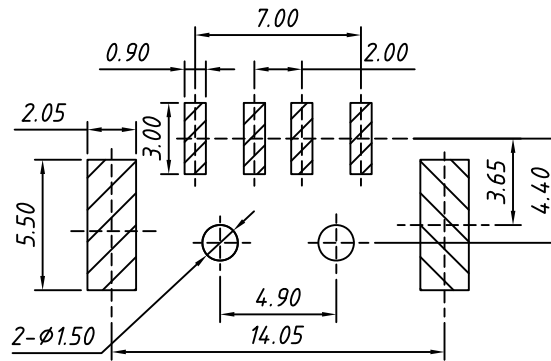
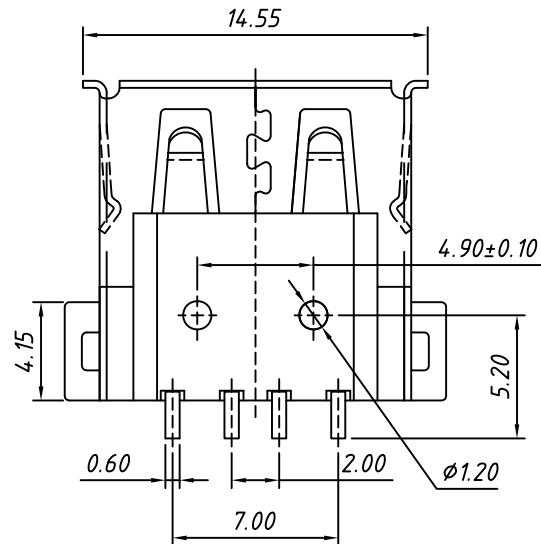
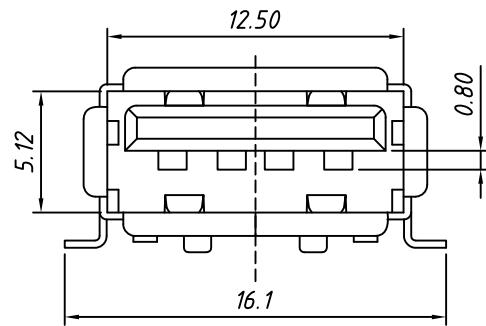
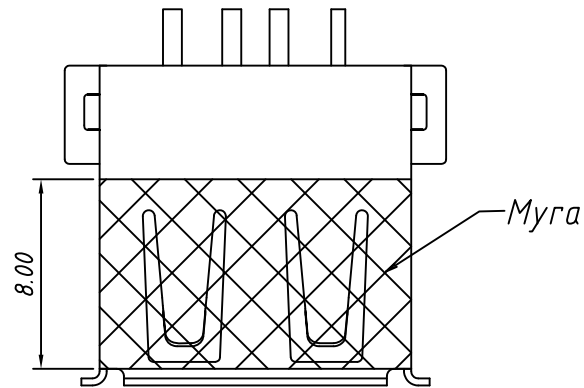
Insulation Color

B=Black W=White

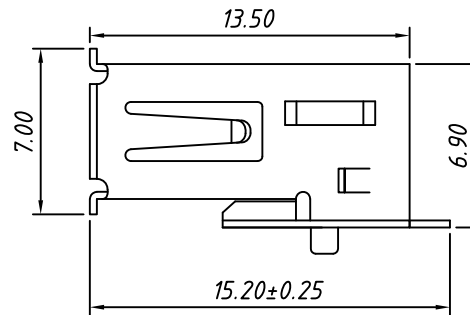
Recommanded PCB Layout

Tolerance:±0.05mm

ANGLE TOLERANCE	PROJECTION		Description:	
±3°			USB 2.0 Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:	L-KLS1-181E-x
x.x ±0.30	SHEET SIZE	A4		
x.xx ±0.20	Draw:	Song	2026-09-14	NingBo KLS ELECTRONIC CO.,LTD.
x.xxx ±0.10	Check:	Daniel	2026-09-14	



RECOMMENDED PCB LAYOUT
TOLERANCE: ±0.05



Material

Housing: Hing Temperature Thermoplastic,
UL 94 V-0 LCP, Black/White.

Contact: Copper Alloy C2680.

Shell: Copper Alloy C2680/SPCC.

Finish:

Contact: Plated Gold In Mating Area;

Tin On Solder Tails.

Shell: Nickel Plating.

Electrical:

Current Rating: 1.5A/Contact Terminal.

Voltage Rating: 30V DC

Contact Resistance: 30mΩ Max.

Dielectric Withstanding Voltage:
500 V AC AT Sea Level.

Insulation Resistance: 1000MΩ Min.

Connector Mate and Unmated Force

Mate Force: 3.75kgf Max.

Unmated Force: 1.02kgf Min.

Terminal Retention: 1.2kgf Min.

Order Information

L-KLS1- 1827 - B - R

RoHS

USB 2.0 A Female

Color: W=WHITE

B=BLACK

Packing: P=Tray

R= Tape on REEL

GENERAL TOLERANCE	PROJECTION		Description:
X. ±0.50	UNITS	mm	CONN COM TYPE A USB Female SMD
.X ±0.25	SCALE	1:1	
.XX ±0.10	Draw by:	Jenny	KLS P/N: L-KLS1-1827-X-X
ANGLE TOLERANCE	Check by:		
X. ±5°	Date	2018-03-01	NingBo KLS ELECTRONIC CO.,L TD.
.X ±3°	SHEET	1 OF 1	
.XX ±2°			