

REV.	ECN NO.	DESCRIPTION	DATE	DESIGN
04	---	INCREASING CARD	2020.01.06	HL.W
05	---	Add color	2022.7.27	HL.W

NOTE:

1.MATERIAL SPECIFICATION:

- 1-1.HOUSING:LCP BLACK/BLUE 300C,UL94 V-0.
- 1-2.COVER:LCP BLACK,UL94 V-0.
- 1-3.TERMINAL FOR 4 PIN:PHOSPHOROUS BRONZE
- 1-4.TERMINAL FOR 5 PIN:BRASS
- 1-5.FRONT SHELL:STAINLESS STEEL

2.PLATING SPECIFICATION:

2-1.TERMINAL(4PIN&5PIN):

- 50u" Ni MIN. UNDER PLATED OVER ALL.
- 30u" MIN.Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
- 100u" MIN TIN PLATED ON SOLDER AREA.

2-2.FRONT SHELL:

- 60u" MIN. TIN PLATED ON SOLDER AREA.

3.MECHANICAL PERFORMANCE,

- 3-1.INSERTION FORCE: 35 N MAX.
- 3-2.REMOVAL FORCE: 10 N MIN.
- 8 N MIN AFTER DURABILITY.
- 3-3.DURABILITY: 5000 CYCLES.

4.ELECTRICAL PERFORMANCE,

4-1.CONTACT CURRENT RATING:

- 1.8 A FOR VBUS PIN AND ITS CORRESPONDING GND PIN
- 0.25 A MIN FOR ALL OTHER CONTACTS.

4-2.CONTACT RESISTANCE:

- INITIAL 30 MILLIOHMS MAX FOR VBUS AND GND CONTACTS.
- INITIAL 50 MILLIOHMS MAX FOR ALL OTHER CONTACTS.
- AFTER DURABILITY 10 MILLIOHMS MAX CHANGE.

4-3.INSULATION RESISTANCE: 100 MEGOHMS MIN.

4-4.DIELECTRIC WITHSTAND VOLTAGE:100V AC FOR 1 MINUTE.

5.HF COMPLIANT.

6.IR REFLOW:

- THE PEAK TEMPERATURE ON THE BOARD SHALL
- BE MAINTAINED FOR 10 SECONDS AT 260°C.

7.DATE CODE: XX XX

WEEK
YEAR

8.P/N: 12HU-AAD*-91 * R

HOUSING COLOR

B= BLACK

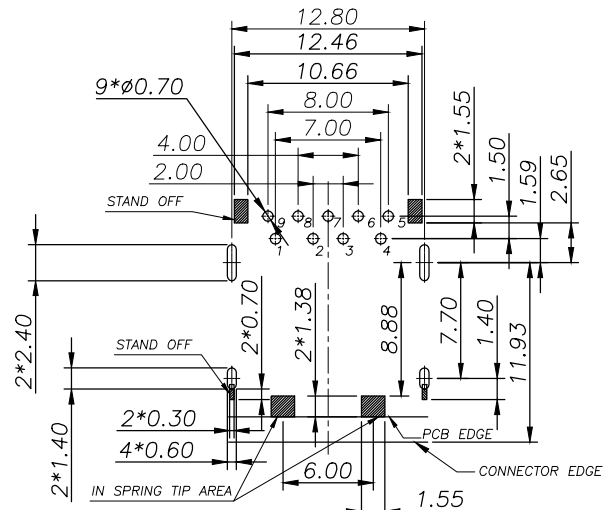
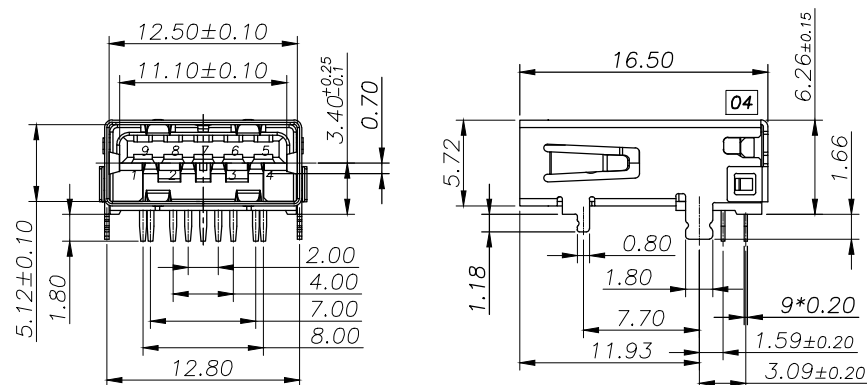
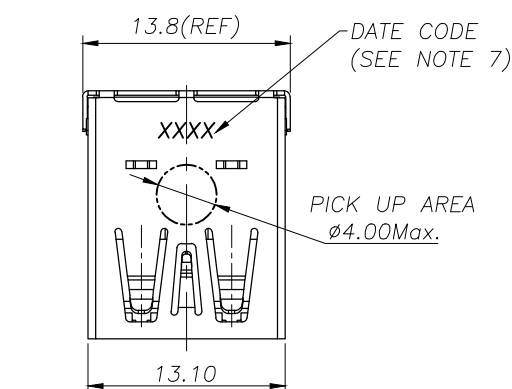
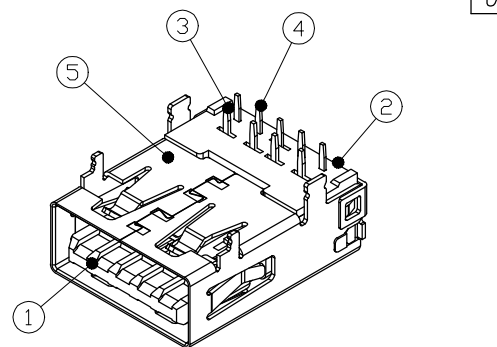
U= BLUE 300C

CONTACT AREA GOLD PLATING:

1=1u"

B=15u"

C=30u"



PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	DESCRIPTION
1	VBUS	POWER
2	D-	USB 2.0 DIFFERENTIAL PAIR
3	D+	
4	GND	GROUND FOR POWER RETURN
5	Stda-SSR-	SUPER-SPEED RECEIVER DIFFERENTIAL PAIR
6	Stda-SSR+	
7	GND-DRAIN	GROUND FOR SIGNAL RETURN
8	Stda-SST-	SUPER-SPEED TRANSMITTER DIFFERENTIAL PAIR
9	Stda-SST+	
SHELL	SHIELD	CONNECTOR METAL SHELL

RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS 1.6±0.05mm;DEFAULT TOLERANCE:±0.05

DIM	TOL	DIM	DEG
X	±0.50	X°	±8°
X.X	±0.35	X.X°	±5°
X.XX	±0.25	X.XX°	±3°
X.XXX	±0.15	X.XXX°	±2°

DESIGN:	HL.W	2020.01.06
CHECK:		
APPROVED		

JOINSOO建舜電子

FILE:	DRAW NAME: USB 3.1 A/F DIP 90° CH=3.40 mm		
DRAW NO.			
P/N: 12HU-AAD*-91*R			
UNIT: mm	SCALE: 1:1	MODEL:	
REV: 05	SHEET: 1/2		