

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			NEW RELEASE	07/17'25	David

ORDERING INFORMATION

U3FA - RD05 (XX R)

① ② ③

① PRODUCT SERIES:

USB 3.0 connector—
Female(PCB) A type.

② ITEM NO.:

Right Angle — Dip Type.
Body14.00L/ CH 1.60mm

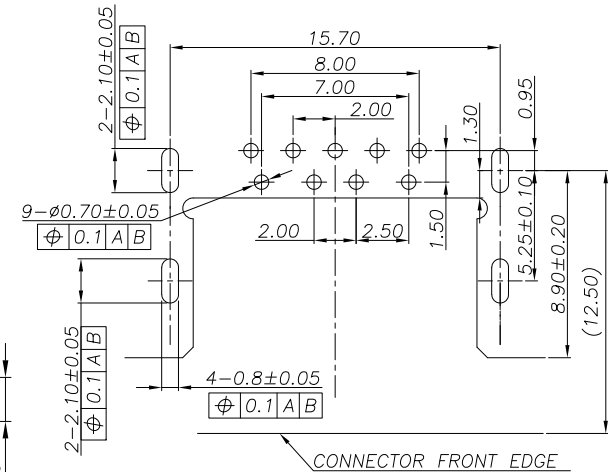
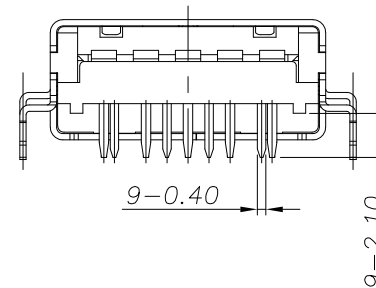
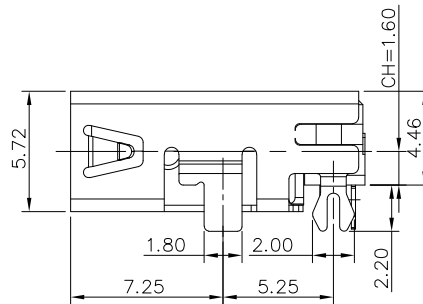
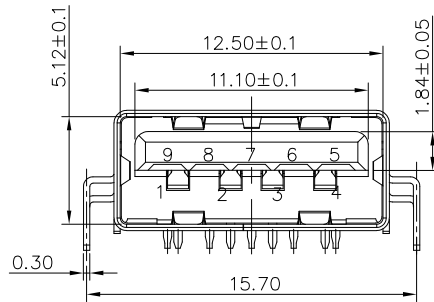
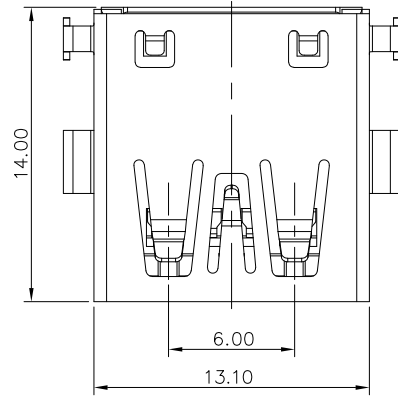
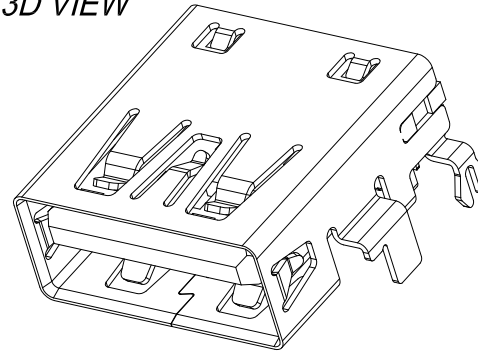
CUSTOMER DRAWING

RoHS Compliant

③ GOLD PLATING:

01: G/F.

3D VIEW



CONNECTOR FRONT EDGE

RECOMMENDED PCB LAYOUT
GENERAL TOLERANCE ±0.05

NOTES:

1.MATERIAL:

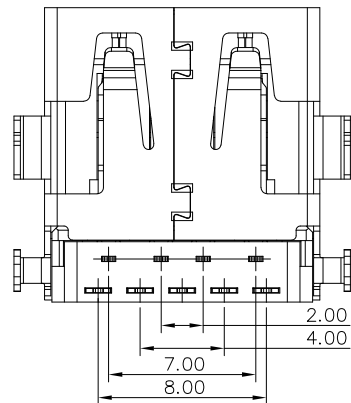
- 1.1 HOUSING: HIGHT TEMP, UL94V-0.
- 1.2 CONTACT: Copper Alloy.
- 1.3 SHELL: SUS201.

2.PLATING

- 2.1 CONTACT: GOLD ON CONTACT AREA OVER NICKEL UNDER-PLATED OVER ALL.
- 2.2 SHELL: NICKEL PLATED OVER ALL.

3.SPECIFICATIONS:

- 3.1 CONTACTRESISTANCE: 30mΩ Max
- 3.2 CONTACT CURRENT RATING:1.8A
- 3.3 DIELECTRIC WITHSTANDING VOLTAGE: 100 V R.M.S.
- 3.4 INSULATION RESISTANCE: 100 MΩ min
- 3.5 OPERATING TEMPERATURE: -40°C TO +85°C
- 3.6 INSERTION FORCE: 35N (3.57 Kg) MAX.
- 3.7 UNMATED FORCE: 10N (1.02Kg) min
- 3.8 DURABILITY:5,000 CYCLES



Pin #	SIGNAL NAME	DESCRIPTION	MATING SEQUENCE
1	VBUS	POWER	SECOND
2	D-	USB 2.0 DIFFERENTIAL PAIR	THIRD
3	D+		
4	GND	GROUND FOR POWER RETURN	SECOND
5	StdA_SSRX-	SUPERSPEED RECEIVER DIFFERENTIAL PAIR	LAST
6	StdA_SSRX+		
7	GND_DRAIN	GROUND FOR SIGNAL RETURN	
8	StdA_SSTX-	SUPERSPEED TRANSMITTER DIFFERENTIAL PAIR	
9	StdA_SSTX+		
Shell	Shield	CONNECTOR METAL SHELL	FRIST

DIM	TOL	DIM	TOL
X.X	±0.30	X.X*	±3.0*
X.XX	±0.20	X.XX*	±2.0*
X.XXX	±0.10	X.XXX*	±1.0*

SUNFUN		SUNFUN TECHNOLOGY LTD			
DRAW NO.	U3FA-RD05(A0)	DATE	MATERIAL: SEE NOTES		DRAW NAME:
DESIGN:	David	07/17'25	FINISH: SEE NOTES		USB 3.0 connector—Female(PCB) A type. Right Angle, DIP Type.
CHECK:	David	07/17'25	FILE: U3FA-RD05(A0)		MODEL: USB 3.0 AF
REVIEW:	Frank	07/17'25	P/N: U3FA-RD05(XXR)		UNIT: mm
APPROVED	Frank	07/17'25	REV. A0	SCALE	SHEET: 1/1