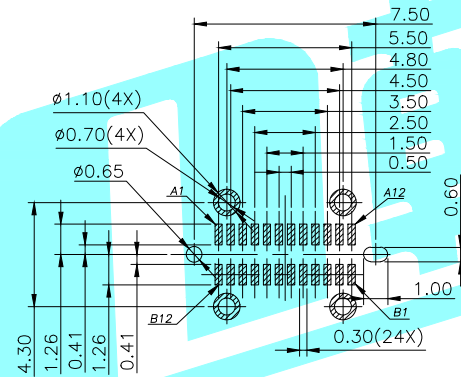
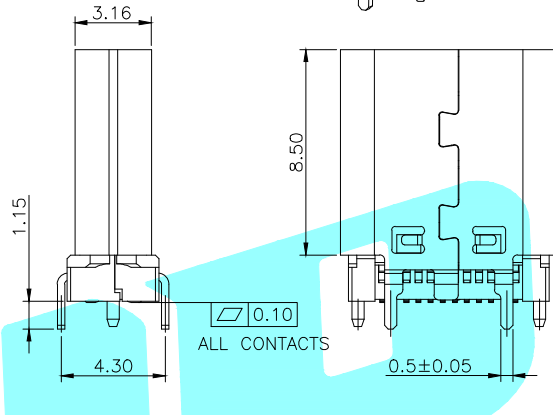
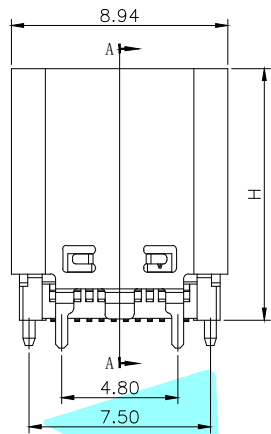
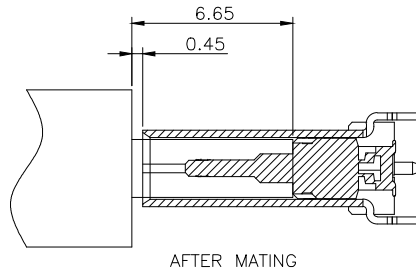
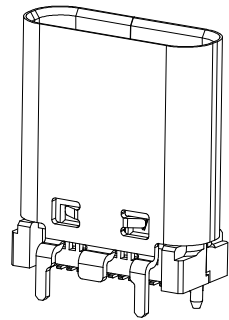
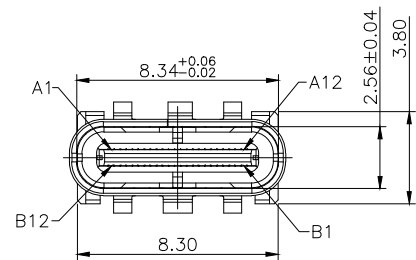
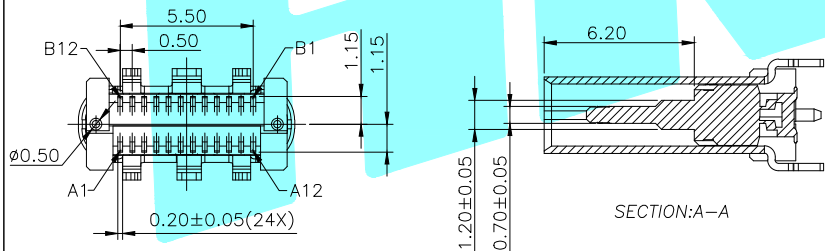


# ROHS



RECOMMENDED PCB LAYOUT(TOP VIEW)  
THICKNESS 1.0±0.10MM;DEFAULT TOLERANCE:±0.05



SECTION:A-A

H	PART NO.
9.3	TYPE-C-31-M-06
10.4	TYPE-C-31-M-07

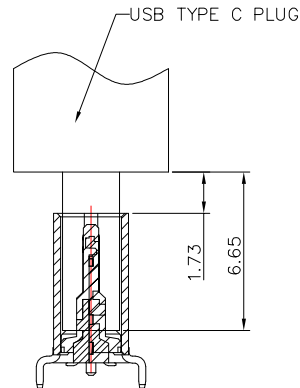
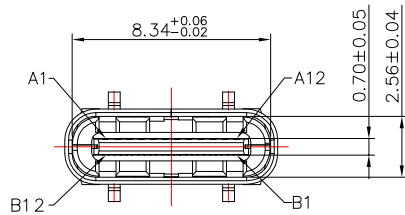
PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBus	B9	Vbus
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBus	B4	Vbus
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND

- NOTE:
- MATERIAL SPECIFICATION:
    - HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0
    - TERMINAL: COPPER ALLOY(C1814)
    - MID PLATE: STAINLESS STEEL(SUS301)
    - FRONT SHELL: STAINLESS STEEL(SUS304)
    - EMI PLATE: STAINLESS STEEL(SUS304)
  - PLATING SPECIFICATION:
    - TERMINAL:
      - Ni 50u" MIN. UNDER PLATED OVER ALL.
      - Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
      - (GOLD PLATING THICKNESS FOLLOW THE P/N)
      - PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N
    - FRONT SHELL:
      - PLATING SPECIFICATIONS FOLLOW THE P/N
    - MID PLATE&EMI PLATE:
      - CLEAR ONLY
  - MECHANICAL PERFORMANCE,
    - INSERTION FORCE: 0.5~2.0kgf.
    - REMOVAL FORCE: 0.8kgf~2.0kgf.
    - DURABILITY: 10000 CYCLES.
  - ELECTRICAL PERFORMANCE,
    - VOLTAGE RATING:5 V DC/AC (RMS. max)  
CURRENT RATING:5 AMPS. FOR TOTAL VBUS/GND PINS;  
1.25AMPS FOR CC PIN,0.25 AMPS. FOR ALL OTHER CONTACT.
    - LLCR:
      - VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.
      - SHIELD: 50mΩ/MAX.
      - LLCR MAX. CHANGE OF ALL PINS: 10mΩ.
    - INSULATION RESISTANCE: 100MΩ MIN
    - DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
  - ENVIRONMENTAL PERFORMANCE:
    - OPERATING TEMPERATURE: -25°C~+85°C.
  - IR REFLOW:
    - THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260°C.

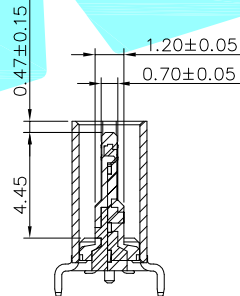
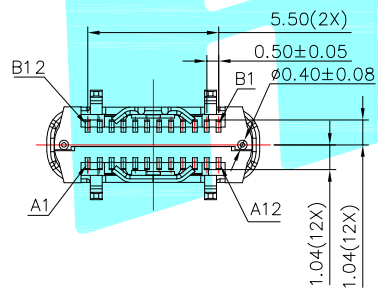
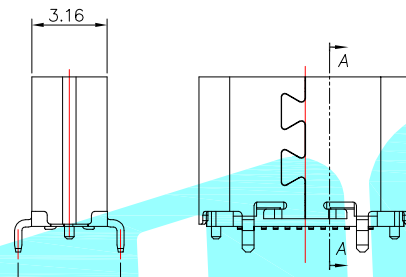
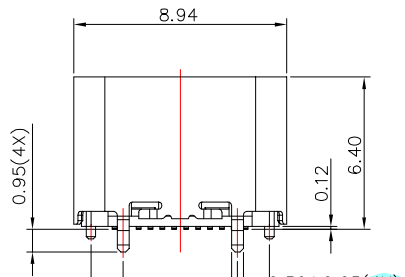
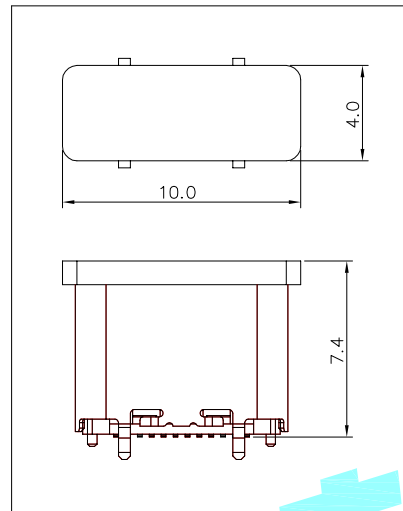
APPROVALS		DATE	HROU® ELECTRONICS CO.,LTD				
DRAWN	LIUCAN	2021.4.20	TITLE:	USB CONNECTOR			
CHECKED			PART NO.	TYPE-C-31-M-□□			
APPROVALS			TOLERANCES ARE	30~以上 ±0.30	10~30 ±0.25	ANGLE	
				5~10 ±0.20	±2'	UNIT: mm	
				~ 5 ±0.15		SCALE: 1:1	
ECN NO.	REV.	DATE.	CHANGE.	CHECK.	APPRO.	DRAWING NO.	PROJ:
	A						SHEET 1 OF 1

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
	A		NEW			

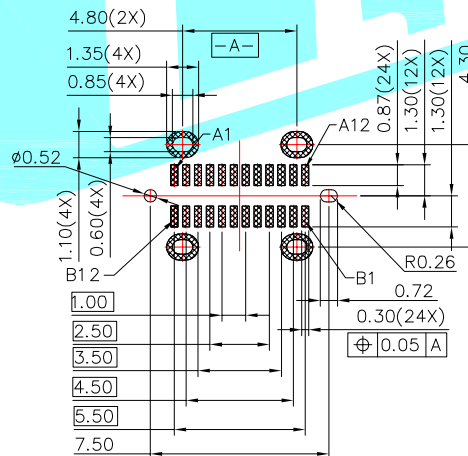
# ROHS



FEMALE AND MALE MATCHING DRAWING



SECTION: A-A



RECOMMENDED PCB LAYOUT(TOP VIEW)

THICKNESS 0.8±0.10MM; DEFAULT TOLERANCE: ±0.05

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	Vbus	B9	Vbus
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	Vbus	B4	Vbus
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND

NOTE:

1.MATERIAL SPECIFICATION:

- 1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0
- 2.TERMINAL: COPPER ALLOY(C1814)
- 3.MID PLATE: STAINLESS STEEL(SUS301)
- 4.FRONT SHELL: STAINLESS STEEL(SUS304)
- 5.EMI PLATE: STAINLESS STEEL(SUS304)

2.PLATING SPECIFICATION:

2-1.TERMINAL:

- Ni 50u" MIN. UNDER PLATED OVER ALL.
- Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
- (GOLD PLATING THICKNESS FOLLOW THE P/N)
- PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N

2-2.FRONT SHELL:

- PLATING SPECIFICATIONS FOLLOW THE P/N

2-3.MID PLATE&EMI PLATE:

- CLEAR ONLY

3.MECHANICAL PERFORMANCE:

- 3-1.INSERTION FORCE: 0.5~2.0kgf.
- 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
- 3-3.DURABILITY: 10000 CYCLES.

4.ELECTRICAL PERFORMANCE:

- 4-1. VOLTAGE RATING: 5 V DC/AC (RMS. max)
- CURRENT RATING: 5 AMPS. FOR TOTAL VBUS/GND PINS;
- 1.25AMPS FOR CC 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. ENVIRONMENTAL PERFORMANCE:

- OPERATING TEMPERATURE: -25°C~+85°C.

6.IR REFLOW:

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

APPROVALS		DATE	HRO 睿 ELECTRONICS CO.,LTD			
DRAWN	LIUCAN	2021.8.21	TITLE:	高度6.4MM		
CHECKED			PART NO.	TYPE-C-31-M-06A		
APPROVALS			UNIT: mm	SCALE: 1:1	PROJ:	
TOLERANCES ARE	30~以上: ±0.30	ANGLE	DRAWING NO.		SHEET 1 OF 1	
	10~30: ±0.25					
	5~10: ±0.20					
	~ 5: ±0.15					

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
	A		NEW			