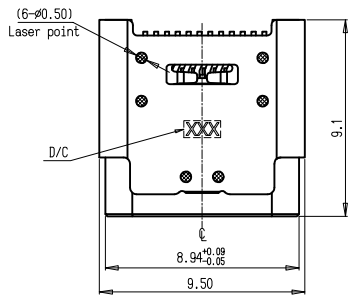
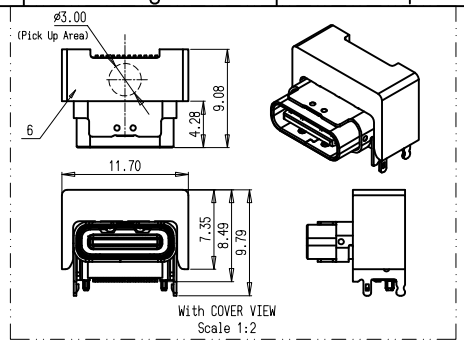
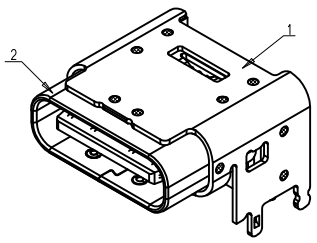
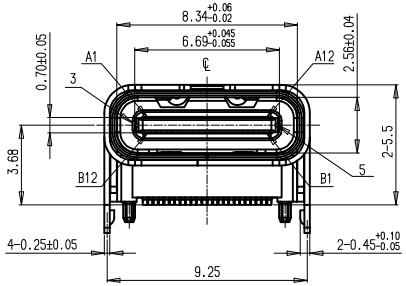
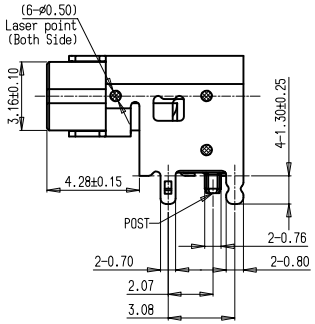
Rev.	ECN No.	DESCRIPTION
X1	2024/06/17	Initial

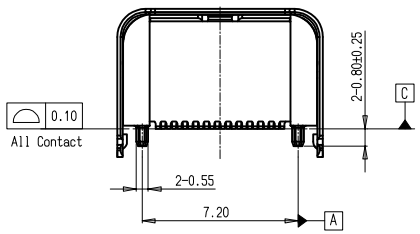


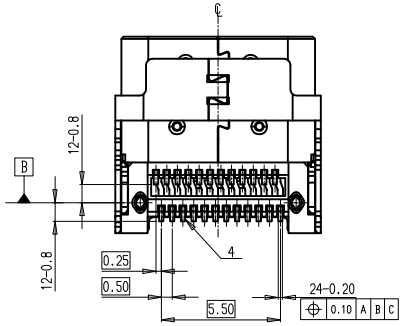


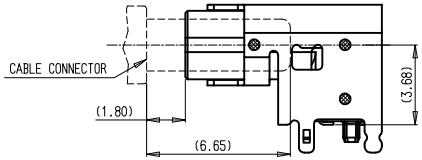




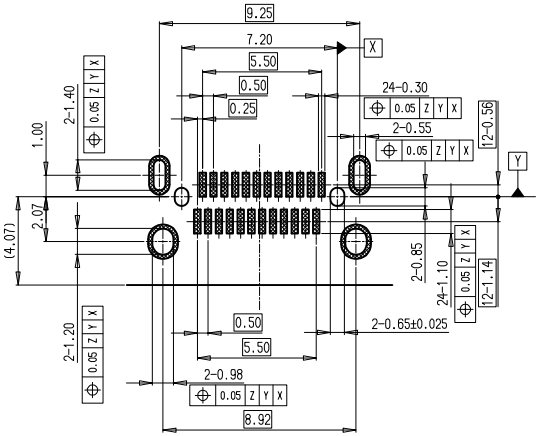








RECESSED MOUNTING CONFIGURATION



RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)

PCB THICKNESS: 1.20±0.05mm
DEFAULT TOLERANCE: ±0.05
Z

Specifications(规格书):

1. Electrical characteristics(电气特性):
   - 1-1. Current rating(额定电流):
     5A for VBUS(A4,A9,B4,B9)&GND(A1,A12,B1,B12), 0.25A for other pins(其他Pin).
   - 1-2. Contact resistance(接触阻抗):
     40 mΩ (MAX) initial for all contacts, Δ10 mΩ (MAX) after environmental test.
     所有端子初始接触阻抗40 mΩ (MAX), 环境测试后最大增量不超过10 mΩ.
   - 1-3. Dielectric withstanding voltage(耐电压) :
     Lab test(认证测试): 100 VAC/60s/0.5mA;
     Production test(产线测试): 100 VAC/0.1s/0.5mA.
   - 1-4. Insulation resistance(绝缘阻抗):
     Lab test(认证测试): 200 VDC/60s/100 MΩ;
     Production test(产线测试): 200 VDC/0.1s/100 MΩ.
2. Mechanical characteristics(机械特性):
   - 2-1. Connector insertion force(插入力):
     5~20N at a maximum rate of 12.5mm/min. 插入力规格为5~20N.
   - 2-2. Connector extraction force(拔出力):
     Initial:8~20N at a maximum rate of 12.5mm per minute.
     Final:6~20N at a maximum rate of 12.5mm per minute(mated with a new plug) .
     初始拔出力8~20N, 耐久测试后拔出力规格为6~20N(匹配新公座).
   - 2-3. Durability(耐久测试): Mating & unmating 10000 cycles minimum.耐久插拔至少10000次以上.
   - 2-4. Operating temperature(工作温度): -55° C ~ +125° C
3. The connector is Rohs2.0 & HF compliant.此连接器符合RoHS2.0&HF标准.

PRODUCT NO. : A1 4 1 - 7 24 * 37- * 1

- Contact Area Plating
  - 1: GOLD FLASH
  - 2: 15u" Au
  - 3: 30u" Au
  - C: 3u" Au
- Molded Color:
  - 0:Black
  - 1:White

PIN ASSIGNMENT			
Pin No.	Signal Name	Pin No.	Signal Name
A1	GND	B12	GND
A2		B11	
A3		B10	
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	D+	B7	D-
A7	D-	B6	D+
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A10		B3	
A11		B2	
A12	GND	B1	GND

Item	Description	QTY.	Material	Finish
6	COVER	1	Thermo Plastic, UL94V-0	Molded Color: Black
5	Shielding plate	1	Stainless stell	Clean
4	Contact	24	Copper Alloy	Ni underplating overall, gold plating at contact area,gold plating at termination.
3	IM	1	Thermo Plastic, UL94V-0	Molded Color: Black/White
2	Inner Shell	1	Stainless stell	Ni plating overall
1	Out Shell	1	Stainless stell	Ni plating overall

TOLERANCES UNLESS OTHERWISE SPECIFIED			
X.		.XXX	
.X	±0.25	X.°	±1°
.XX	±0.20	.X°	±0.5°

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ALL BEST
All Best Electronics Technology CO.,LTD.

SERIES: USB Type C	TITLE: USB Type C 24Pin, Conn.
APPD: Holiday 2024/06/17	PART No.: A141-724*37-*1
CKD: Frank 2024/06/17	DWG No.: C02-0000-126
DR: Jackoy 2024/06/17	

UNITS	MAT'L	FINISH	SCALE	SHEET	REV.
MM	N/A	N/A	1:1	1/1	X1