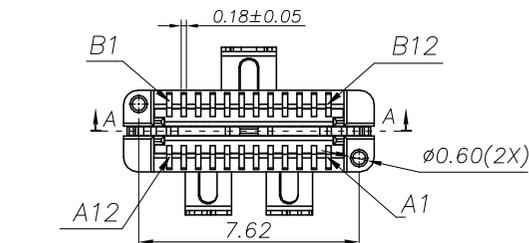
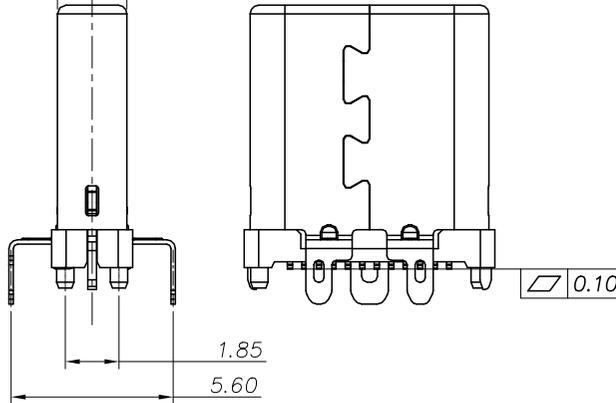
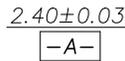
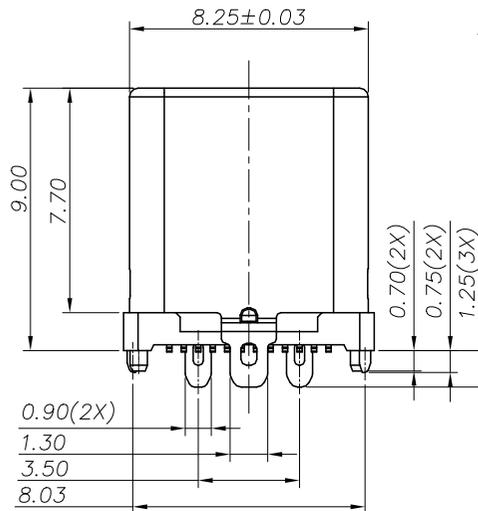
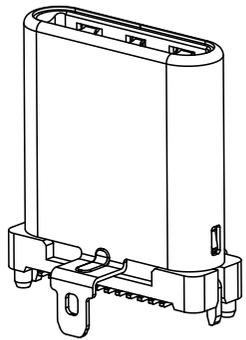
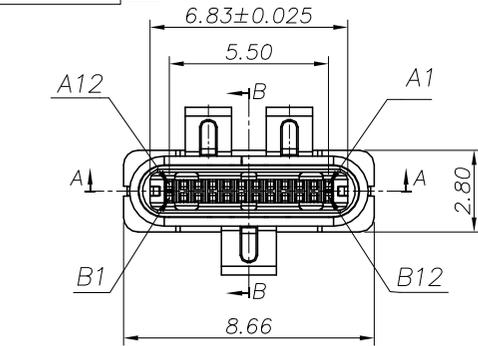


RoHS2.0



PRELIMINARY

UCB12-24AB0 X A N L-R
 PIN NUMBER: 24PIN
 CONTACT:
 1:G/F CONTACT AREA
 2:3u" CONTACT AREA
 5:15u" CONTACT AREA
 R: ROHS
 PACK:
 L: TAPE REEL
 COLOR:
 A: Black

NOTE:

- 1.MATERIAL SPECIFICATION:
 - 1.HOUSING&PICKUP COVER: LCP,UL94 V-0.
 - 2.CONTACTS: COPPER ALLOY(C7025)
 - 3.LATCH: STAINLESS STEEL(SUS301)
 - 4.SPRING: STAINLESS STEEL(SUS304)
 - 5.FRONT SHELL: STAINLESS STEEL(SUS304)
- 2.PLATING SPECIFICATION:
 - 2-1.CONTACTS:
 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:
 Ni 30u" MIN. UNDER PLATED OVER ALL.
 Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
 Ni 50u" MIN. UNDER PLATED OVER ALL.
 80u" MIN. TIN PLATED ON SOLDER AREA.
- 2-4.SPRING:
 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. CURRENT RATING: 3.0A
 VOLTAGE RATING: 5.0V
 - 4-2. LLCR:
 VBUS & GND PINS AND OTHER PINS: 40mA/PIN MAX.
 SHIELD: 50mA/MAX.
 LLCR MAX. CHANGE OF ALL PINS: 10mA
 - 4-3.INSULATION RESISTANCE: 100MΩ MIN
 - 4-4.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
5. ENVIRONMENTAL PERFORMANCE:
 OPERATING TEMPERATURE: -25℃~+85℃
- 6.IR REFLOW:
 THE PEAK TEMPERATURE ON THE BOARD SHALL
 BE MAINTAINED FOR 10 SECONDS AT 260℃.

REV.	REVISION RECORD	DATE	GENERAL TOLERANCES		SCALE	NAME	DATE	PART NO.	DWG NO.	
A0	NEW RELEASE	2020. 6. 22		LINEAR	1:1	SKY	2023. 8. 22	UCB12-24AB05ANL-R	ENDE05	
A1	Change Frame	2023. 8. 22		ANGLES	APPROVED					
			UNIT: MM	0.00±0.20	X. X° ±8°	DESIGNER	GSQ	2023. 8. 22	TITLE	
			SIZE: A4	0.000±0.10	X. XX° ±5°	DRAWN	YYG	2020. 6. 22	SUB CM VERTICAL TYPE HIGHT=9.0 REV A1 SHEET 1/3	

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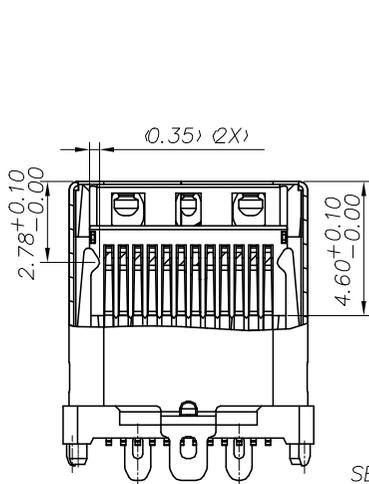
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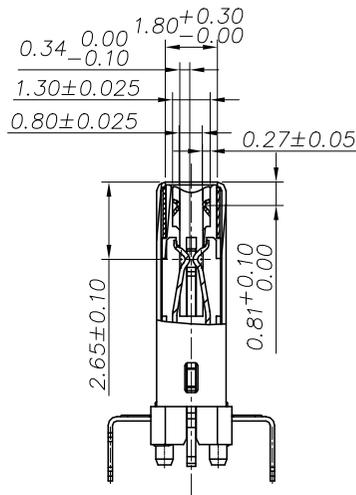
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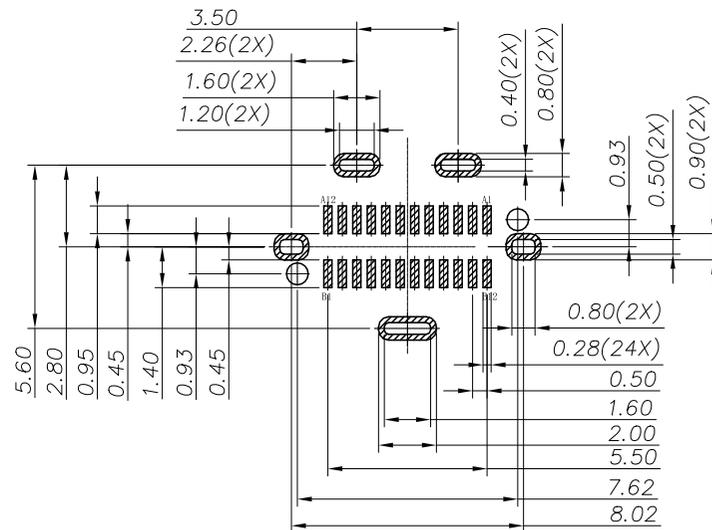
RoHS2.0



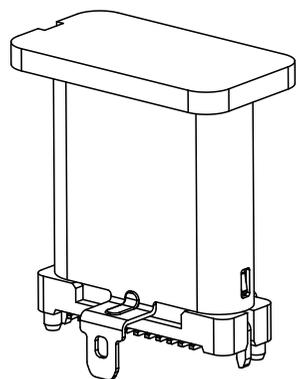
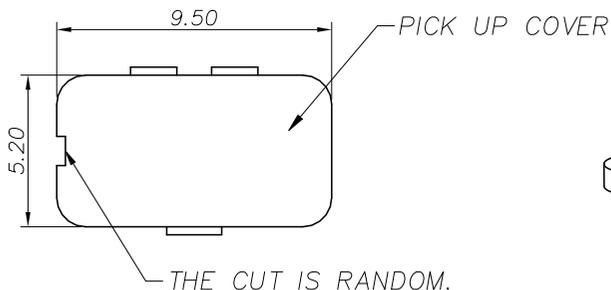
SECTION: A-A



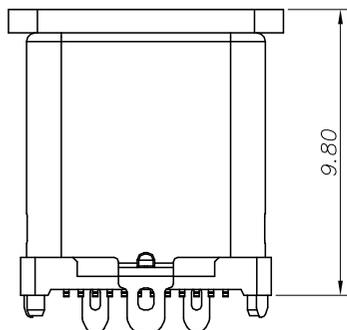
SECTION: B-B



RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS 0.8±0.10MM;DEFAULT TOLERANCE:±0.05



AFTER WITH PICKUP COVER

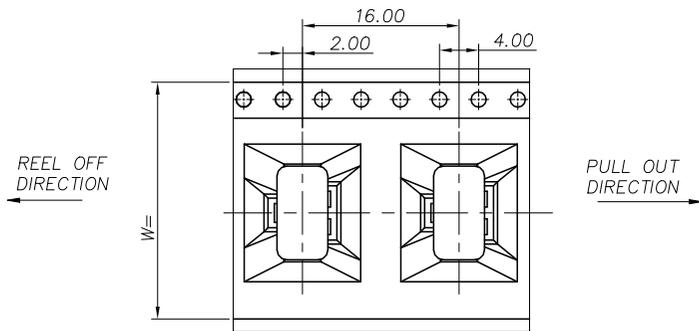
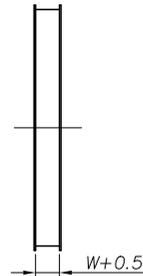
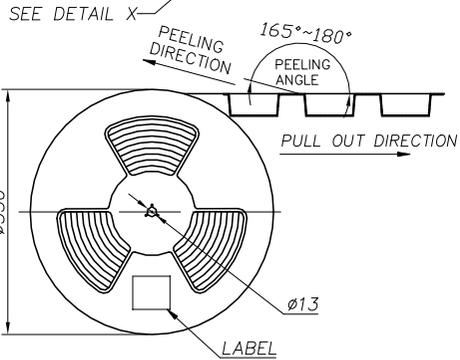
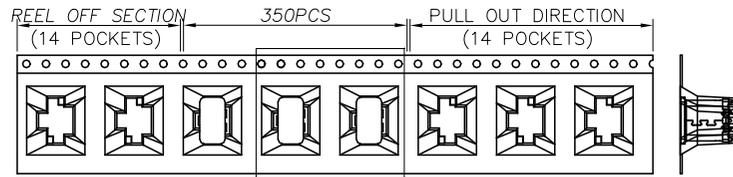


USB TYPE-C PIN ASSIGNMENTS

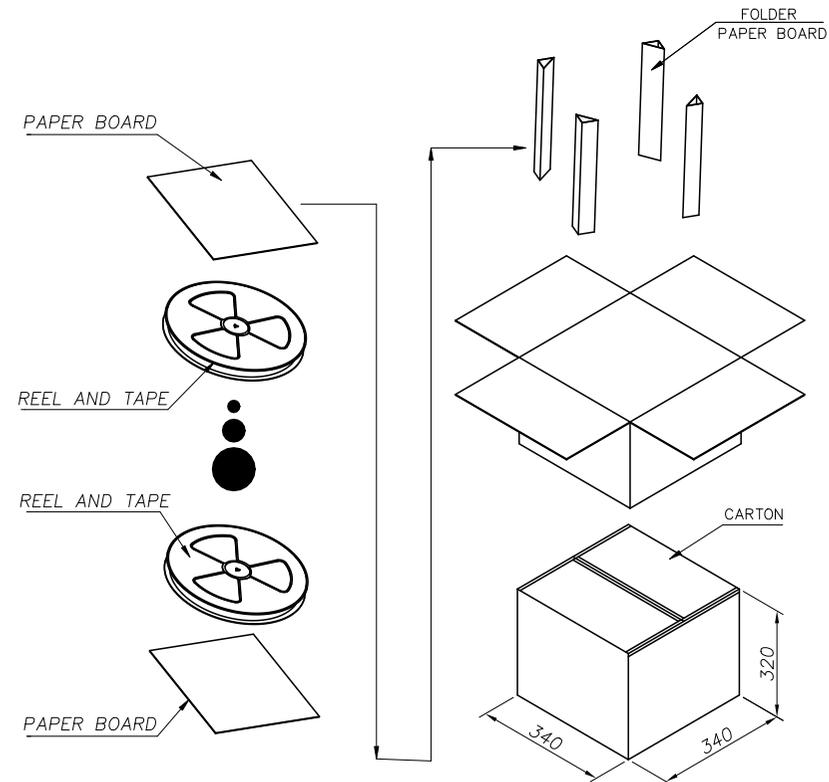
PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	Vbus	B9	Vbus
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	Vbus	B4	Vbus
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND

REV.	REVISION RECORD	DATE	GENERAL TOLERANCES		SCALE	NAME	DATE	PART NO.	DWG NO.	
A0	NEW RELEASE	2020. 6. 22		LINEAR	1:1	SKY	2023. 8. 22	UCB12-24AB05ANL-R	ENDE05	
A1	Change Frame	2023. 8. 22		ANGLES	APPROVED					
			UNIT: MM	0.00±0.20	X. X° ±8°	DESIGNER	GSQ	2023. 8. 22	TITLE	
			SIZE: A4	0.000±0.10	X. XX° ±5°	DRAWN	YYG	2020. 6. 22	USB CM VERTICAL TYPE HIGHT=9.0	
REV	A1	SHEET	2/3							

RoHS2.0



DETAIL X
SCALE 2:1



PRELIMINARY

	REEL/TRAY	CARTON
CONNECTOR (PCS)	350	3500

REV.	REVISION RECORD	DATE		GENERAL TOLERANCES		SCALE 1:1	NAME	DATE	PART NO.	DWG NO.		
A0	NEW RELEASE	2020. 6. 22		LINEAR	ANGLES	APPROVED	SKY	2020. 6. 22	UCB12-24AB05ANL-R	ENDE05		
			UNIT: MM	0.00±0.25	X.X° ±1°	DESIGNER	—	—	TITLE			
			SIZE: A4	0.000±0.15	X.XX° ±0.5°	DRAWN	YYG	2020. 6. 22	USB CM VERTICAL TYPE HIGHT=9.0 Packing drawing			
									REV	A0	SHEET	3/3

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