



REV.	ECN. NO.	NAME	DATE
A0	-----	----	05-09-2026

SPECIFICATION:

1. ELECTRICAL:

- 1.1 CONTACT CURRENT RATING:
5A FOR VBUS PIN AND ITS CORRESPONDING
GND PIN, VCONN:0.50A, OTHER CONTACTS:0.25A;
- 1.2 VOLTAGE RATING:20.0V
- 1.3 INSULATION RESISTANCE: 100MΩ MIN.;
- 1.4 CONTACT RESISTANCE:
VBUS & GND: 30mΩ MAX.;
OTHER CONTACTS: 40mΩ MAX.;
LLCR MAX. CHANGE OF ALL CONTACTS: 10mΩ.
- 1.5 DIELECTRIC WITHSTANDING VOLTAGE: AC 100V FOR 1MINUTE;

2. MECHANICAL:

- 2.1 INSERTION FORCE: 5N~20N;
- 2.2 REMOVAL FORCE: 8N~20N(1~1000CYCLES);
- 2.3 DURABILITY: 10000 CYCLES, 6N~20N AFTER DURABILITY;
- 2.4 OPERATING TEMPERATURE -55°C TO +85°C
3. RECOMMENDED PROCESS: IR REFLOW SOLDERING,
PEAK TEMP 260±5°C, 5~10 SECONDS;
4. TRANSMISSION RATE SUPPORT USB4;
5. RoHS2.0 AND HF COMPLIANT;

PART NO.
UC4-F24A223 X - B24

0=镀金1u"
1=镀金3u"
3=镀金5u"
5=镀金15u"
6=镀金30u"

备注: 标注符号“ ▼ ”为品管重点检测尺寸

6	COVER	1	THERMOPLASTIC HIGH TEMP, UL94 V-0, COLOR: BLACK	
5	MOLDING	1	THERMOPLASTIC HIGH TEMP, UL94 V-0, COLOR: BLACK	
4	CONTACTS	24	COPPER ALLOY, T=0.12mm;Au PLATED (SEE PART NUMBER) ON THE FUNCTIONAL AREA OF CONTACT, GOLD FLASH PLATED ON SOLDER TAIL,UNDER PLATED 50u" Min. NICKEL OVERALL.	
3	SHIELD PLATE	1	STAINLESS STEEL, T=0.12mm; 50u" Min. NICKEL PLATED OVERALL.	
2	IN SHELL	1	STAINLESS STEEL, T=0.30mm; 50u" Min. NICKEL PLATED OVERALL.	
1	OUT SHELL	1	STAINLESS STEEL, T=0.20mm; 50u" Min. NICKEL PLATED OVERALL.	
ITEM	NAME	Q'TY	MATERIAL & PLATING	REMARKS

TOLERANCE:

X.	X.°	±3°
X.X	X.X°	±1°
X.XX		
X.XXX		

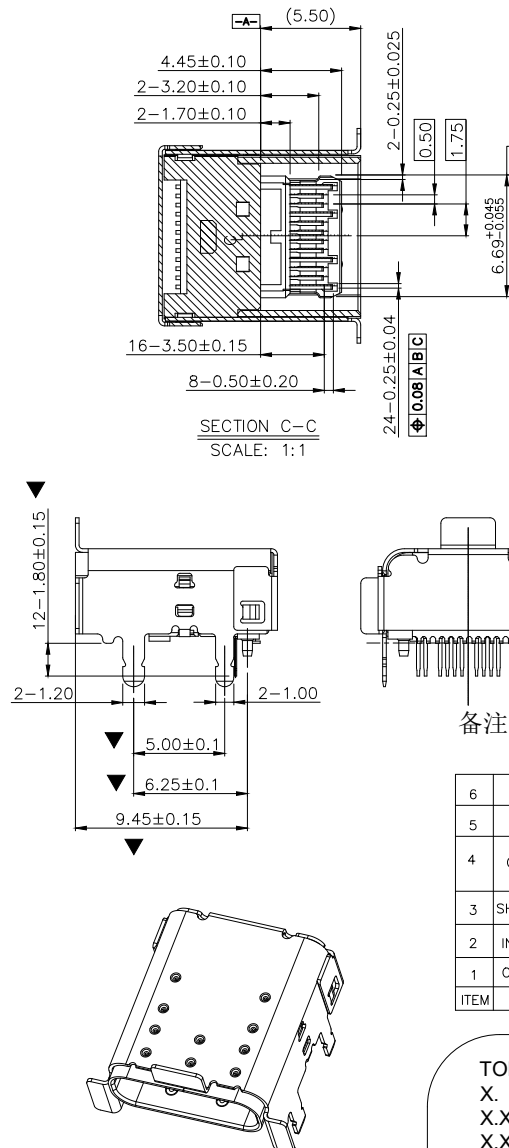
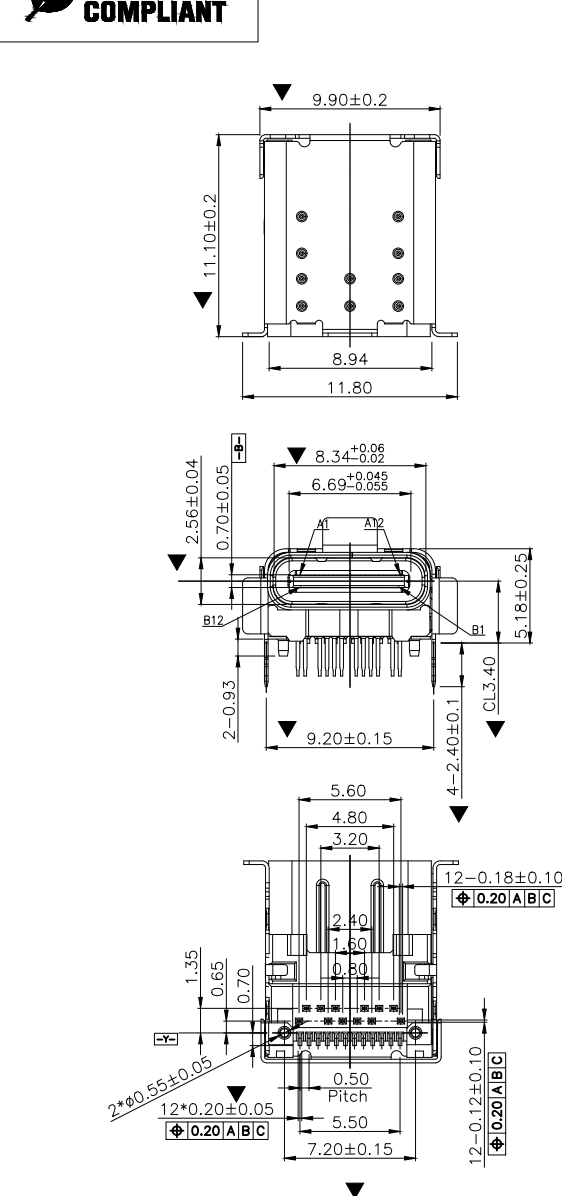


FOR YOUR
VITAL CONNECTION

TITLE:

USB4 TYPE C REC CH=3.40 DUAL
SMT+DIP TYPE

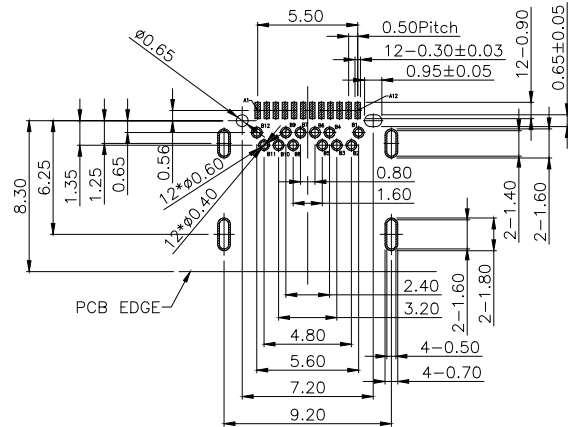
DRAWN BY:	Zou Long	PART NO:	UC4-F24A223X-B24	SHEET:	1 OF 3	REV:	A0
CHECKED BY:	Bob	DWG NO:	VTC-TZ-00154	SIZE:	A4	UNIT:	mm
APPROVED BY:	QPF	PROJECTION:		http://www.vitalconn.com			



For technical support, please send an email to support@vitalconn.com

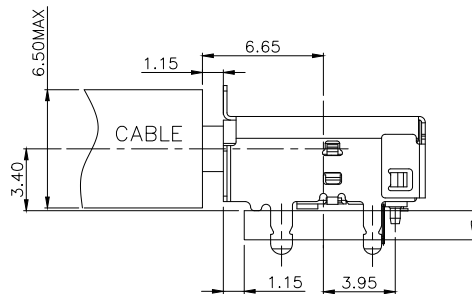


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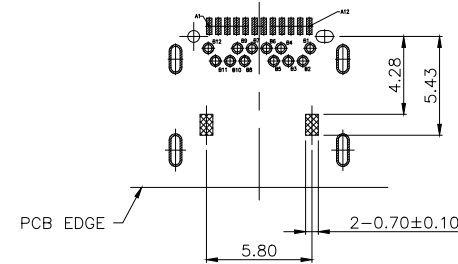
RECOMMENDED PCB LAYOUT (COMPONENT SIDE)

PCB THICKNESS: 1.60±0.05
DEFAULT TOLERANCE: ±0.05



RECOMMENDED METHOD OF MATE

SCALE: 1:1



RECOMMENDED CONTACTOR EDGE

COMPONENT SIDE: TOP VIEW

STAND OFF AREA (禁止摆件)

PAD AREA

Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	SSTXp1	Positive half of first SuperSpeed TX differential pair	Second	B11	SSRXp1	Positive half of first SuperSpeed RX differential pair	Second
A3	SSTXn1	Negative half of first SuperSpeed TX differential pair	Second	B10	SSRXn1	Negative half of first SuperSpeed RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use	Second
A6	Dp1	Positive half of the USB2.0 differential pair-Position 1	Second	B7	Dn2	Negative half of the USB2.0 differential pair-Position 2	Second
A7	Dn1	Negative half of the USB2.0 differential pair-Position 1	Second	B6	Dp2	Positive half of the USB2.0 differential pair-Position 2	Second
A8	SBU1	Sideband Use	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	SSRXn2	Negative half of second SuperSpeed RX differential pair	Second	B3	SSTXn2	Negative half of second SuperSpeed TX differential pair	Second
A11	SSRXp2	Positive half of second SuperSpeed RX differential pair	Second	B2	SSTXp2	Positive half of second SuperSpeed TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

TOLERANCE:

X. X.° ±3°
X.X ±0.35 X.X° ±1°
X.XX ±0.25
X.XXX ±0.15



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TITLE:

USB4 TYPE C REC CH=3.40 DUAL
SMT+DIP TYPE

DRAWN BY:	Zou Long	PART NO:	UC4-F24A223X-B24	SHEET:	2 OF 3	REV:	A0
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