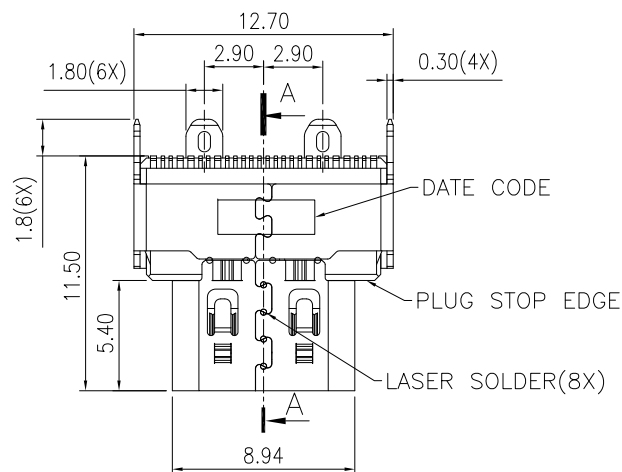
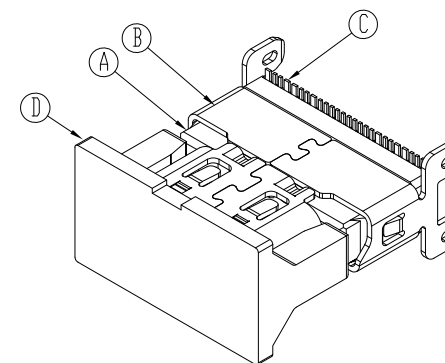
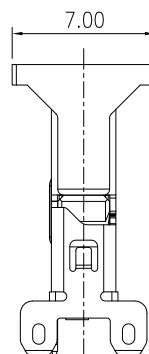
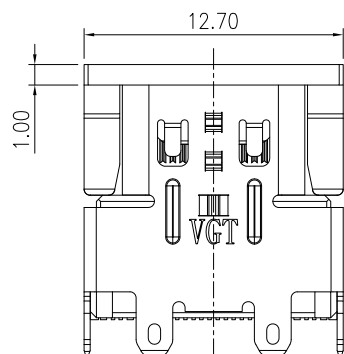
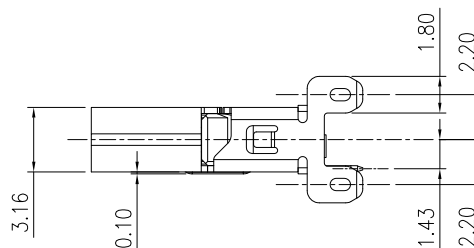
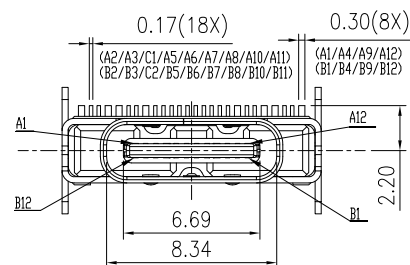


SECTION "A-A"



PART NUMBER : VUCF-BA4-HBB1-B X R

Gold Plating: ☐
 G=Gold Flash (1u" min.)
 A=3u"
 B=6u"
 C=10u"
 D=15u"
 E=30u"

NOTES:

- ELECTRICAL CHARACTERISTICS:
 - 1-1 CURRENT RATING: 5A
A CURRENT OF 5 A IS APPLIED TO THE VBUS PIN (A4, A9, B4, and B9) AND ITS CORRESPONDING GND PIN (A1, A12, B1, and B12)
 - 1-2 VOLTAGE RATING: DC 48V
 - 1-3 DIELECTRIC WITH STANDING: AC 100V
 - 1-4 INSULATION RESISTANCE: 100 MΩ
 - 1-5 CONTACT RESISTANCE:
INITIAL 30 MILLIOHMS MAX FOR VBUS AND GND CONTACT,
INITIAL 40 MILLIOHMS MAX FOR ALL OTHER CONTACT,
AFTER DURABILITY 10 MILLIOHMS MAX CHANGE.
- MECHANICAL CHARACTERISTICS:
 - 2-1 CONNECTOR MATING FORCE: 5~20N
 - 2-2 CONNECTOR UNMATING FORCE: 8N~20N INITIAL, 6N~20N AFTER DURABILITY.
 - 2-3 DURABILITY: 10000 CYCLES.
- ENVIRONMENTAL
 - 3-1 OPERATING TEMPERATURE RANGE: -40°C TO +85°C
- DIMENSIONS ARE IN MILLIMETERS, BRACKETED DIMENSIONS ARE INCHES EQUIVALENTS.
- RECOMMENDED PROCESS: IR REFLOW PEAK TEMPERATURE 260±5°C
- THE CONNECTOR IS ROHS COMPLIANT AND HALOGEN FREE.
- WHEN PLUG IS INSERTED INTO CONNECTOR IN WORSE CONDITION, SPRING TIP TOUCH PCB. SO INHIBIT CIRCUIT IN SPRING TIP AREA.

CHECKED UNA		UNLESS OTHERWISE SPECIFIED TOLERANCE		NAME USB4 Gen3 C,1 Row SMT,Vetical H=11.5mm,Dip Shell,Receptacle			
APPROVED KL				SCALE NA	UNIT mm	Material/Plated/Notes	
REV. A		Dimension Range Tolerance		SIZE A4	SHEET 1/2	④ SHIELD : STAINLESS STEEL/NICKEL PLATING	
		X.X ±0.35	④ HOUSING : HIGH TEMPERATURE PLASTIC, UL94 V-0.				
A		X.XX ±0.25				③ CONTACTS : COPPER ALLOY/NICKEL UNDERPLATED OVERALL,GOLDEN AT CONTACT AREA,LEAD FREE TIN ALLOY AT TERMINATION.	
		X.XXX ±0.15				④ CAP : HIGH TEMPERATURE PLASTIC, UL94 V-0.	
		ANGLE ±5°					

THIS IS A ROHS COMPLIANT COMPONENT PRODUCT.

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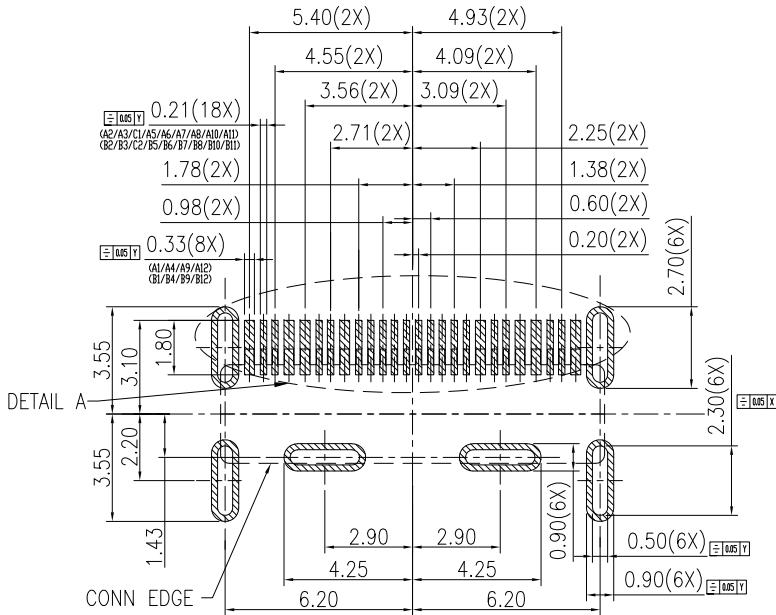
A

B

C

D

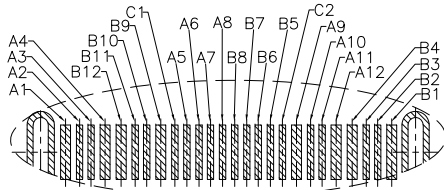
E



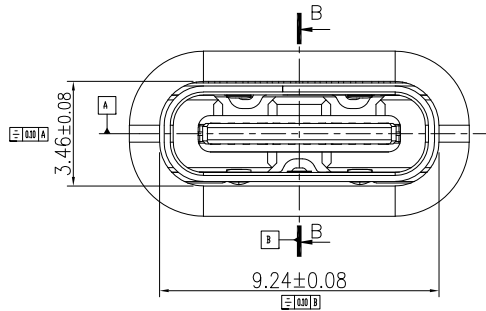
RECOMMEND PCB LAYOUT

TOP VIEW Tolerance:±0.05mm

 SOLDER AREA
Tolerance:+0.05mm



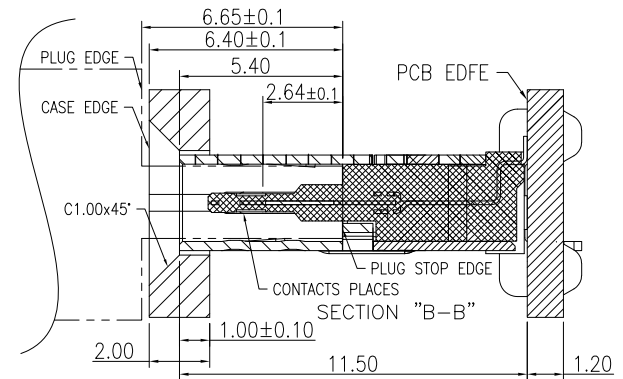
DETAIL A



PANEL CUT OUT

PIN ASSIGNMENT

Pin Number	Signal Name	Description
A1	GND	Ground for Power Return
A2	SS TX1+	Positive half of first SuperSpeed TX differential pair
A3	SS TX1-	Negative half of first SuperSpeed TX differential pair
A4	VBUS	POWER
A5	CC1	Configuration Channel
A6	D+	USB2.0 differential pair
A7	D-	
A8	SBU1	Sideband Use (SBU)
A9	VBUS	POWER
A10	SS RX2-	Negative half of second SuperSpeed RX differential pair
A11	SS RX2+	Positive half of second SuperSpeed RX differential pair
A12	GND	Ground for Power Return (Middle partitions shorts)
B12	GND	Ground for Power Return (Middle partitions shorts)
B11	SS RX1+	Positive half of first SuperSpeed RX differential pair
B10	SS RX1-	Negative half of first SuperSpeed RX differential pair
B9	VBUS	POWER
B8	SBU2	Sideband Use (SBU)
B7	D-	USB2.0 differential pair
B6	D+	
B5	CC2	Configuration Channel
B4	VBUS	POWER
B3	SS TX2-	Negative half of second SuperSpeed TX differential pair
B2	SS TX2+	Positive half of second SuperSpeed TX differential pair
B1	GND	Ground for Power Return
C1	GND	Center shielding Ground pin,
C2	GND	Center shielding Ground pin,



PLUG INTO RECEPTACLE REPRESENT

CHECKED UNA		UNLESS OTHERWISE SPECIFIED TOLERANCE	NAME USB4 Gen3 C,1 Row SMT,Vetical H=11.5mm,Dip Shell,Receptacle		PART NO. & DOC NO. VUCF-BA4-HBB1-BXR
APPROVED KL			SCALE NA	UNIT mm	
REV. A			Dimension Range	Tolerance	
		X.X	±0.35		
		X.XX	±0.25		
		X.XXX	±0.15		
		ANGLE	±5°		
		SIZE A4	SHEET 2/2	Material/Plated/Notes ① SHIELD : STAINLESS STEEL/NICKEL PLATING ② HOUSING : HIGH TEMPERATURE PLASTIC, UL94 V-0. ③ CONTACTS : COPPER ALLOY/NICKEL UNDERPLATED OVERALL,GOLDEN AT CONTACT AREA,LEAD FREE TIN ALLOY AT TERMINATION. ④ CAP : HIGH TEMPERATURE PLASTIC,UL94 V-0.	

HF
RoHS

THIS IS A RoHS COMPLIANT COMPONENT PRODUCT.



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TECHNOLOGY
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△	NEW DESIGN	UNA	102924
MARK	REVISION RECORD	DRAWN	MMDDYY