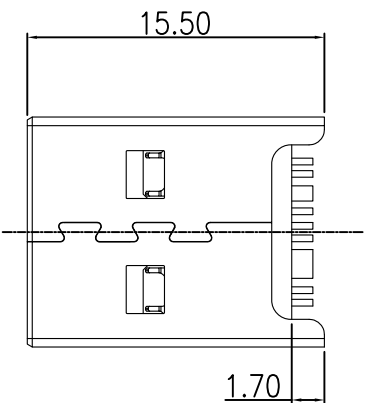


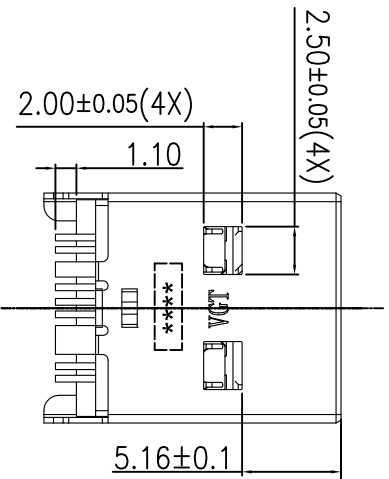
Contact solder tail

PART NUMBER : JCN-31A2-UBAA-XXX1

Plastic Color: _____
A=Blue
B=Black
Gold Plating: _____
G=Gold Flash
A=3u"
B=6u"
C=10u"
D=15u"
E=30u"
Package: _____
R=Lapping Reel
T=Part
U=Tube

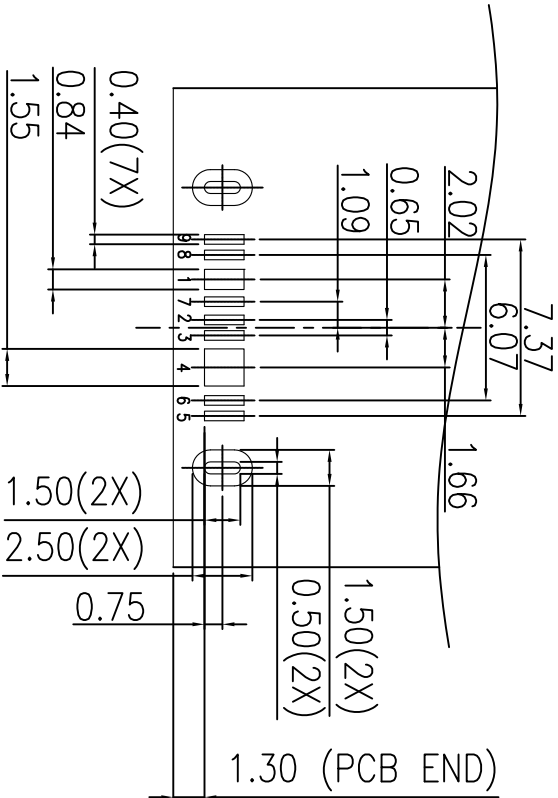
NOTES:

- ELECTRICAL CHARACTERISTICS:
1-1 CONTACT CURRENT RATING:
1.8A FOR VBUS PIN AND ITS CORRESPONDING GND PIN,
0.25A MIN FOR ALL OTHER CONTACTS.
1-2 CONTACT RESISTANCE:
INITIAL 30 MILLIOHMS MAX FOR VBUS AND GND CONTACT,
INITIAL 50 MILLIOHMS MAX FOR ALL OTHER CONTACT,
AFTER DURABILITY 10 MILLIOHMS MAX CHANGE.
1-3 DIELECTRIC WITH STANDING: 100 MEGOHMS MIN
- MECHANICAL CHARACTERISTICS:
2-1 CONNECTOR MATING FORCE: 35N MAX
2-2 CONNECTOR UNMATING FORCE: 10N MIN INITIAL,8N MIN AFTER DURABILITY.
2-3 DURABILITY: 5000 CYCLES.
2-4 OPERATING TEMPERATURE RANGE: -20°C TO +85°C
- DIMENSIONS ARE IN MILLIMETERS, BRACKETED DIMENSIONS ARE INCHES EQUIVALENTS.
- RECOMMENDED PROCESS: IR REFLOW PEAK TEMPERATURE 260°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.



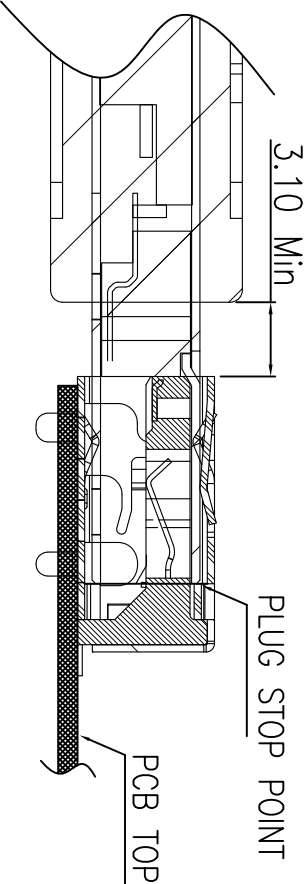
CHECKED		NAME		US312 Gen2 A1 Row SMT,One(Bottom),2,4mm,dp Shell,Plug	
Steve		UNLESS OTHERWISE SPECIFIED, TOLERANCE		SCALE	
APPROVED		Marvin		UNIT	
REV.		X1		① SHIELD : STAINLESS STEEL/NICKEL PLATING	
X1		② HOUSING : HIGH TEMPERATURE PLASTIC		③ CONTACTS : COPPER ALLOY/NICKEL UNDERPLATED OVERALL LEAD FREE TIN ALLOY AT TERMINATION.	
2		3		4	
3		4		5	
4		5		Design drawing	

PIN ASSIGNMENT			
Pin Number	Signal Name	Description	
1	VBUS	POWER	
2	D-	USB2.0 differential pair	
3	D+		
4	GND	Ground for Power Return	
5	SS RX-	Superspeed receiver differential pair	
6	SS RX+		
7	GND DRAIN	Ground for Power Return	
8	SS TX-	Superspeed transmitter differential pair	
9	SS TX+		



RECOMMENDED P.C.B LAYOUT TOP VIEW

TOLERANCES ± 0.05MM



PLUG INTO RECEPTACLE REPRESENT

CHECKED		NAME	
Steve		USB3.2 Gen2 A1 Rev 317.0mm(0.05mm) Plug Shell Plug	
APPROVED		SCALE	
Marvin		N/A	
Dimension Range Tolerance		UNIT	
X.X		mm	
X.XX		±0.35	
X.XXX		±0.25	
X.XXX		±0.15	
ANGLE		SIZE	
±5°		A4	
REV.		SHEET	
X1		2/2	
① SHIELD : STAINLESS STEEL/NICKEL PLATING		PART NO.	
② HOUSING : HIGH TEMPERATURE PLASTIC		JCN-31A2-UBAA-XXX1	
③ CONTACTS : COPPER ALLOY/NICKEL UNDERPLATED OVERALL LEAD FREE TIN ALLOY AT TERMINATION.		DOC. NO.	
		JCN-31A2-UBAA-XXX1	
HF		THIS IS A ROHS COMPLIANT COMPONENT PRODUCT.	
RoHS		V-GENERAL TECHNOLOGY	
V-GENERAL TECHNOLOGY		維將科技股份有限公司	

△X1	NEW DESIGN	DRAWN	MMDDYY
MARK	REVISION RECORD	DRAWN	121119

1

2

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4

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Design drawing