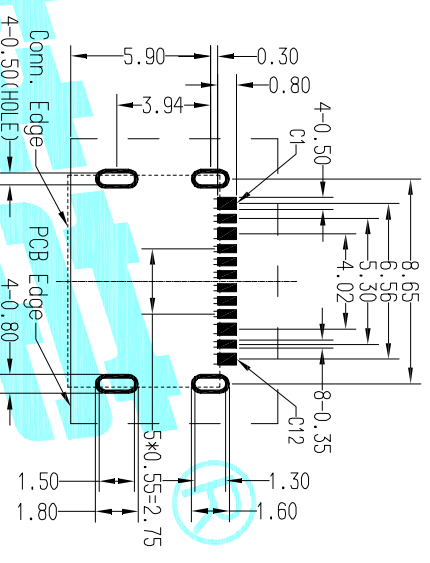


INTERFACE (FRONT VIEW)

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
GND	/	/	V _{BUS}	CC1	D+	D-	SBU1	V _{BUS}	/	/	GND
GND	/	/	V _{BUS}	SBU2	D-	D+	CC2	V _{BUS}	/	/	GND
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1

PIN ASSIGNMENT:

Pin No.	A1&B12	A5	A4&B9	A6	B8	B7	B6	B5	A7	A9&B4	A8	A12&B1
Signal Name	GND	CC1	V _{BUS}	D+	SBU2	D-	D+	CC2	D-	V _{BUS}	SBU1	GND
PCB PAD No.	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12



RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)
 PCB THICKNESS: 0.80±0.05mm
 DEFAULT TOLERANCE: ±0.05mm

NOTES:

- ELECTRICAL CHARACTERISTICS:
 - CONTACT CHARACTERISTICS:
 - CONTACT CURRENT RATING: 5.0A FOR V_{BUS} PIN AND GND PIN, 0.25A MIN FOR ALL OTHER TERMINALS.
 - CONTACT RESISTANCE: 30MILLIOMH MAX FOR V_{BUS} AND GND CONTACTS, 50MILLIOMH MAX FOR ALL OTHER CONTACTS.
 - DIELECTRIC WITHSTANDING VOLTAGE: 100 VRMS AC MIN, 1-4. INSULATION RESISTANCE: 100 MEGOHMS MIN.
 - MECHANICAL CHARACTERISTICS:
 - CONNECTOR INSERTION FORCE: 5-20N, AT A MAXIMUM RATE OF 12.5MM PER SECOND.
 - CONNECTOR EXTRACTION FORCE: 8-20N, AT A MAXIMUM RATE OF 12.5MM PER SECOND.
 - DURABILITY: 10000 CYCLES.
 - OPERATING TEMPERATURE: -55° C TO +85° C.
 - RECOMMENDED PROCESS: IR REFLOW 260° C, 3-5SECONDS.
 - THE CONNECTOR IS ROHS COMPLIANT.

ITEM	PART No.	Dim A	Dim B
1	TYPE-C-31-M-23	6.50	4.40
2	TYPE-C-31-M-24	6.80	4.70
3	TYPE-C-31-M-25	8.30	6.20

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
	A		NEW			

③	Shell	1	STAINLESS STEEL	Ni Plated
②	Contact	12	COPPER ALLOY	Au Plated
①	Housing	1	LCP	Black

ITEM	PART NAME	TER'NO.	QTY.	MATERIAL	FINISHING

APPROVALS	DATE
DRAWN	2018.08.01

TITLE: USB CONNECTOR

ELECTRONICS CO.,LTD

APPROVALS	PART NO.	SCALE: 1:1	PROJ. SHEET 1 OF 1
TOLERANCES ARE	30~0.1 ±0.30	ANGLE	UNIT: mm
	10~30 ±0.25		
	5~10 ±0.20	±2'	DRAWING NO.
	~5 ±0.15		

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