



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

NOTES:

- ELECTRICAL :
  - 1-1.CONTACT CURRENT RATING : 5A(VBUS PIN 1.5A/PIN), 5A(GND PIN 1.25A/PIN MAX),0.25A/PIN(OTHER PIN).
  - 1-2.INSULATION RESISTANCE : 100 MEGAOHMS MIN. AT 250VDC.
  - 1-3.DIELECTRIC WITHSTANDING VOLTAGE : 100VAC MIN.
  - 1-4.LOW LEVEL CONTACT RESISTANCE : INITIAL 40mΩ MAX. AFTER 50mΩ MAX.
- MECHANICAL CHARACTERISTICS :
  - 2-1. MATING FORCE: 5~20N.
  - 2-2. UNMATING FORCE: 8~20N(INITIAL),6~20N(AFTER 10000 CYCLES);
  - 2-3.DURABILITY : 10,000 MATING CYCLES.
  - 2-4.OPERATING TEMPERATURE : -40°C TO +80°C

30Min/1m  
IP-X7

ITEM	PART NAME	TER'NO.	QTY.	MATERIAL	FINISHING
⑧	GLUE WATER	—	1	EPOXY	BLACK;
⑦	Shell-2	—	1	Stainless steel	NI PLATING;
⑥	Shell-1	—	1	Stainless steel	NI PLATING;
⑤	GND PLATE	—	1	Stainless steel	NI PLATING;
④	MID PLATE	—	1	Stainless steel	—
③	Terminal-B	—	12	铜镍硅合金	—
②	Terminal-A	—	12		—
①	Housing	—	1	HIGH TEMP	Black

APPROVALS		DATE		 ELECTRONICS CO.,LTD		
DRAWN	LIUCAN	2021.3.4		TITLE:	USB CONNECTOR	
CHECKED				PART NO.	TYPE-C-31-E-12	
APPROVALS				UNIT: mm	SCALE: 1:1	PROJ:
TOLERANCES ARE			30~以上: ±0.30	ANGLE	DRAWING NO.	SHEET 1 OF 1
			10~30: ±0.25			
			5~10: ±0.20			
			~ 5: ±0.15			

RECOMMENDED P.C.B LAYOUT(Both sides are sample)  
Tolerance:±0.05,Thickness=0.60mm

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