



RECOMMENDED PCB LAYOUT(TOP VIEW)  
THICKNESS 0.8MM,DEFAULT TOLERANCE:±0.05

### USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	Vbus	B9	Vbus
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	Vbus	B4	Vbus
A12	GND	B1	GND

### NOTE:

- 1.MATERIAL SPECIFICATION: 1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,U94 V-0.
  - 2.CONTACTS:COPPER ALLOY
  - 3.MID PLATE: STAINLESS STEEL
  - 4.FRONT SHELL: STAINLESS STEEL
  - 5.EMI PLATE: STAINLESS STEEL
  - 6.TOP SHELL: STAINLESS STEEL
- 2.PLATING SPECIFICATION:  
2-1.CONTACTS:  
Ni 50u" MIN. UNDER PLATED OVER ALL.  
Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.  
(GOLD PLATING THICKNESS FOLLOW THE P/N)  
PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N
- 2-2.FRONT SHELL&TOP SHELL:  
Ni 30u" MIN. UNDER PLATED OVER ALL.  
CLEAR ONLY
- 2-3.SHIELD PLATE&EMI PLATE:  
CLEAR ONLY
- 3.MECHANICAL PERFORMANCE:  
3-1.INSERTION FORCE: 0.3~2.0kgf.  
3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.  
3-3.DURABILITY: 10000 CYCLES.
- 4.ELECTRICAL PERFORMANCE:  
4-1. CURRENT RATINGS:5.0A  
VOLTAGE RATINGS:5.0V
- 4-2. LCR: VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.  
SHIELD: 50mΩ/MAX.  
LCR MAX. CHANGE OF ALL PINS: 10mΩ.
- 4-3.INSULATION RESISTANCE: 100MΩ MIN
- 4-4.DIELECTRIC WITHSTAND VOLTAGE:AC 100V FOR 1 MINUTE.
5. ENVIRONMENTAL PERFORMANCE:  
OPERATING TEMPERATURE: -25℃~+85℃  
THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260℃.
- 6.IR REFLOW:  
BE MAINTAINED FOR 10 SECONDS AT 260℃.

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

APPROVALS	DATE	TITLE:	PART NO.	SCALE:	PROJ:
DRAWN	2018.08.01	USB CONNECTOR	TYPE-C-31-M-26	1:1	1 OF 1
CHECKED					
APPROVALS					
TOLERANCES ARE	30~0.15 ±0.30	ANGLE			
	10~30 ±0.25				
	5~10 ±0.20				
	~5 ±0.15				



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