



PCB LAYOUT(Recommend)  
(General Tolerance:±0.05)

NOTE:

- 1.MATERIAL SPECIFICATION:
  - 1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC:UL94 V-0.
  - 2.CONTACTS: COPPER ALLOY
  - 3.MID PLATE: STAINLESS STEEL
  - 4.FRONT SHELL: STAINLESS STEEL
- 2.PLATING SPECIFICATION:
  - 2-1.CONTACTS:
    - NI 50μ" 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:
  - SEE TABLE1.
- 2-3.SHIELD PLATE&EMI PLATE:
  - CLEAR ONLY
- 3.MECHANICAL PERFORMANCE:
  - 3-1.INSERTION FORCE: 0.5~2.0kgf.
  - 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
  - 3-3.DURABILITY: 10000 CYCLES.
- 4.ELECTRICAL PERFORMANCE:
  - 4-1. CURRENT RATING:3.0A
  - VOLTAGE RATING: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°C~+85°C.
- 6.IR REFLOW:
  - THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260°C.

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	Dp2
A7	Dn1	B6	Dn2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND

APPROVALS		DATE	DRAWING NO.	
DRAWN	G.M.Chen	2015/7/17	ELECTRONICS CO.,LTD	
CHECKED			TITLE: USB TYPE-C	
APPROVALS			PART NO. USB-TYPE-C-019	
TOLERANCES ARE		30~±0.1	±0.30	ANGLE
		10~±0.10	±0.20	UNIT: mm
		5~±0.10	±0.15	SCALE: 1:1
		~5	±0.10	SHEET 1 OF 1
ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.
	A		NEW	CHECK.
				APPRO.

