



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.

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

6.IR REFLOW:

BE MAINTAINED FOR 10 SECONDS AT 260℃.

ITEM	PART NAME	TER'NO.	QTY.	MATERIAL	FINISHING
③	Shell	---	1	STAINLESS STEEL	Ni Plated
②	Contact	---	12	COPPER ALLOY	Au Plated
①	Housing	---	1	LCP	Black

APPROVALS	DATE
DRAWN	2018.08.01

HRD
ELECTRONICS CO.,LTD

TITLE: USB CONNECTOR

PART NO. TYPE-C-31-M-26

APPROVALS

TOLERANCES ARE 30~0.1± ±0.30 ANGLE UNIT: mm SCALE: 1:1 PROJ: SHEET 1 OF 1

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