



RECOMMENDED PCB LAYOUT
Tolerance:±0.05mm



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: 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:
 Ni: 30u" MIN. UNDER PLATED OVER ALL.
 2-3.MID 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. ILCR:
 VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.
 SHIELD: 50mΩ/MAX.
 ILCR MAX. CHANGE OF ALL PINS: 10mΩ.
 4-3.INSULATION RESISTANCE: 100MΩ MIN
 6.IF1 REPEATABLE ELECTRIC WITHSTAND VOLTAGE:AC 100V FOR 1 MINUTE.
 5. ENVIRONMENTAL PERFORMANCE:
 OPERATING TEMPERATURE: -25°C~+85°C.

THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260°C.

⑥	防水圈	1	硅胶	Black
⑤	Shell	1	STAINLESS STEEL	Ni Plated
④	SHIELDING PLATE	1	STAINLESS STEEL	Ni Plated
③	Contact	16	COPPER ALLOY	TIN/Au/Ni Plated
②	Shell Housing	1	HIGH TEMPERATURE PLASTIC	Black
①	Housing	1	HIGH TEMPERATURE PLASTIC	Black
ITEM	PART NAME	TER'NO.	QTY.	MATERIAL FINISHING
APPROVALS		DATE		
DRAWN		JIANKUN LU	2018.08.01	

HLR
ELECTRONICS CO.,LTD

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
	A		NEW			
APPROVALS		TITLE:	USB CONNECTOR			
APPROVALS		PART NO.	TYPE-C-31-E-02			
TOLERANCES ARE		30~Ø1.1 ±0.30	ANGLE	UNIT: mm	SCALE: 1:1	PROJ:
		10~30 ±0.25				
		5~10 ±0.20				
		~5 ±0.15				
						SHEET 1 OF 1