



RECOMMENDED PCB LAYOUT
TOLERANCE: ±0.05

G-Switch USB-C Specification:

1. Current rated: 5A on Vbus/1.25A on Vconn/0.25A on other
2. Voltage rating: 24V AC
3. Withstanding voltage: 100V AC/minute
4. Contact Resistance: 40mΩ Max
5. Insulation Resistance: 100MΩ Min
6. Operating temperature: -40 °C ~ +85 °C
7. Mating force: 5N~20N
8. Unmating force: 8N~20N
9. Durability Cycle: 10,000 Cycles
10. Data transmission rate up to 40Gbp/s

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
GND	TX1+	TX1-	VBUS	CC1	D+	D-	SBU1	VBUS	RX2-	RX2+	GND
First	Second	Second	First	Second	Second	Second	Second	First	Second	Second	First
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1
GND	RX1+	RX1-	VBUS	SBU2	D-	D+	CC2	VBUS	TX2-	TX2+	GND
First	Second	Second	First	Second	Second	Second	Second	First	Second	Second	First

1	COVER	HIGH TEMPERATURE PLASTIC	Black UL 94 V-0
2	SHELL	STAINLESS STEEL	NI PLATED
3	GND PLATE	STAINLESS STEEL	---
4	MID PLATE	STAINLESS STEEL	NI PLATED
5	HOUSING	HIGH TEMPERATURE PLASTIC	Black UL 94 V-0
6	TERMINALS	COPPER ALLOY	Au PLATING ON CONTACT AREA
NO.	PARTS	MATERIAL	REMARKS



SCALE: 1:1	UNIT: mm	Title: Vertical Type-c 24P Female	
SIZE: A4		SMT H=13.5mm	
Unless otherwise General Tolerance:		Molde Code: GT-USB-7028C	
X.	±0.25	DRAWN	CHECKED
X.x	±0.20	APPROVED	DATE
X.xx	±0.15	Xia	Chen
X.xxx	±0.10	Chen	2023.02.01
X°	±5°	REV: A0	SHEET: 1/1

