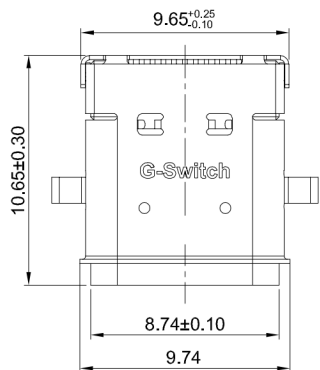
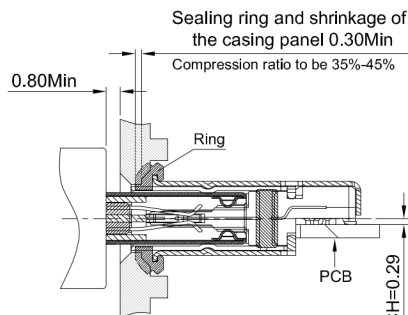
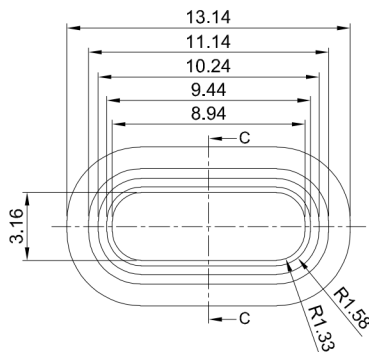
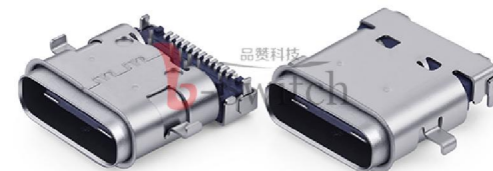


SECTION C-C

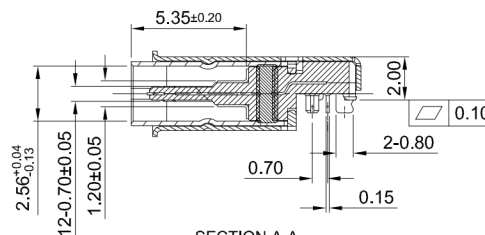
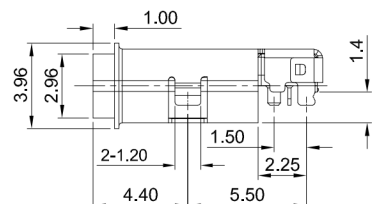
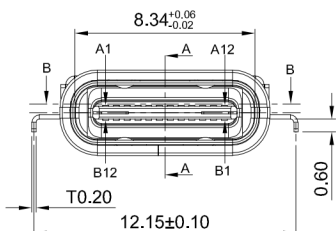
RECOMMENDED ASSEMBLY
TOLERANCE:±0.03mm

1

1

2

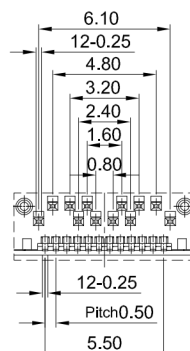
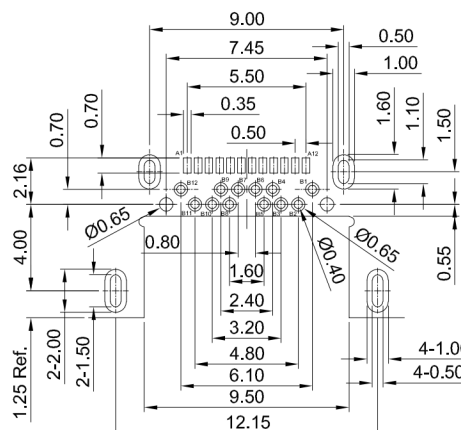
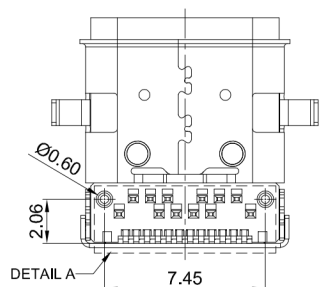
2



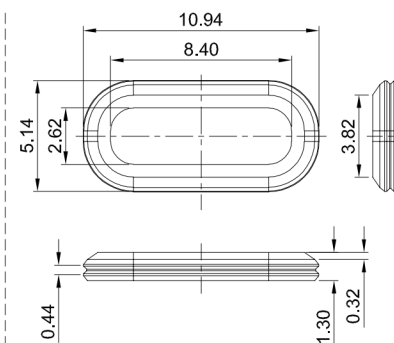
SECTION A-A

G-Switch USB-C Specification:

- 1.Current rated: 5A on vbus/1.25A on vconn/0.25A on other
- 2.Withstanding voltage: 100V AC/minute
- 3.Contact resistance: 40mΩ Max
- 4.Insulation resistance: 100MQ Min
- 5.Operating temperature: -40°C ~ +85°C
- 6.Mating force: 5N~20N
- 7.Unmating force: 8N~20N
- 8.Durability cycle:10,000 cycles
- 9.Data transmission rate up to 40Gbp/s
- 10.Waterproof grade: IP-X8
- 11.Compliant with: IEC62680-1-3



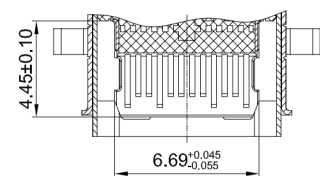
DETAIL A

Suggested waterproof ring specifications
material silicone rubber

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

4

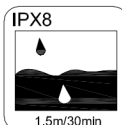
4



SECTION B-B

RECOMMENDED PCB LAYOUT
TOLERANCE:±0.05

NO.	PARTS	MATERIAL	REMARKS
1	COVER SHELL	STAINLESS STEEL201	Ni30u"MIN PLATED
2	SHELL	POWDER METALLURGY	Ni30u"MIN PLATED
3	GROUND SHELL	STAINLESS STEEL304	Ni30u"MIN PLATED
4	MID PLATE	STAINLESS STEEL301	CLEAN ONLY
5	HOUSING	HIGH TEMPERATURE PLASTIC	LCP+30%GF BLACK UL 94 V-0
6	TERMINALS	COPPER ALLOY C18400	AuG/F PLATING ON CONTACT AREA Tin30u"MIN PLATING ON SOLDER AREA
7	RING	SILICA GEL	BLACK
NO.	PARTS	MATERIAL	REMARKS

SCALE: 1:1 UNIT: mm
SIZE: A4Unless otherwise
General Tolerance:
X. ±0.40
X.x ±0.30
X.xx ±0.20
X.xxx ±0.10
X" ±5°Title: IPX8 Horizontal Type-c 24P Female SMT
Mid-Mount1.4 CH=0.29 L=10.65mm

Molde Code: GT-USB-9021A

DRAWN	CHECKED	APPROVED	DATE
Xia	Chen	Chen	2024.03.10



REV: A0 SHEET: 1/1

5

5