

1
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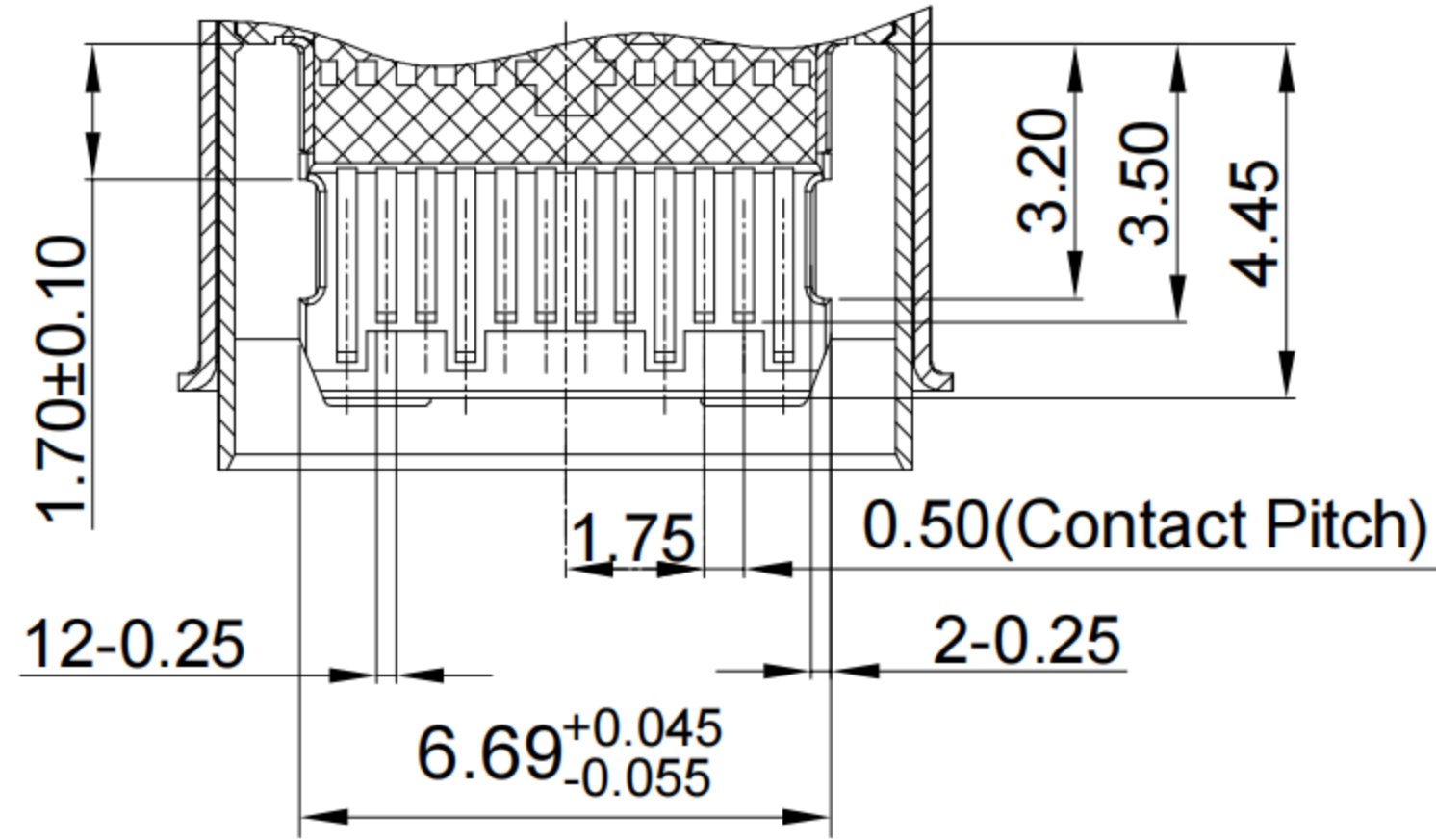
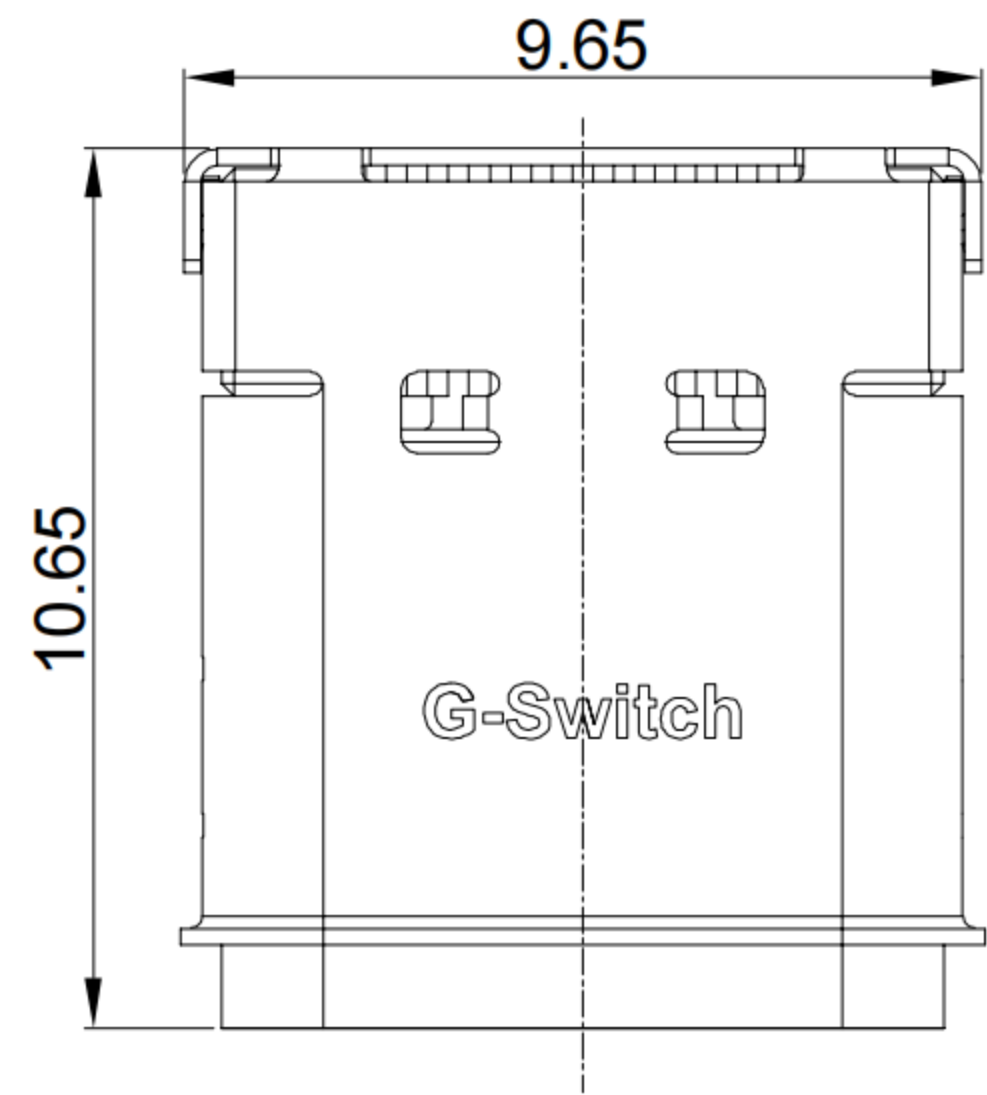
A

B

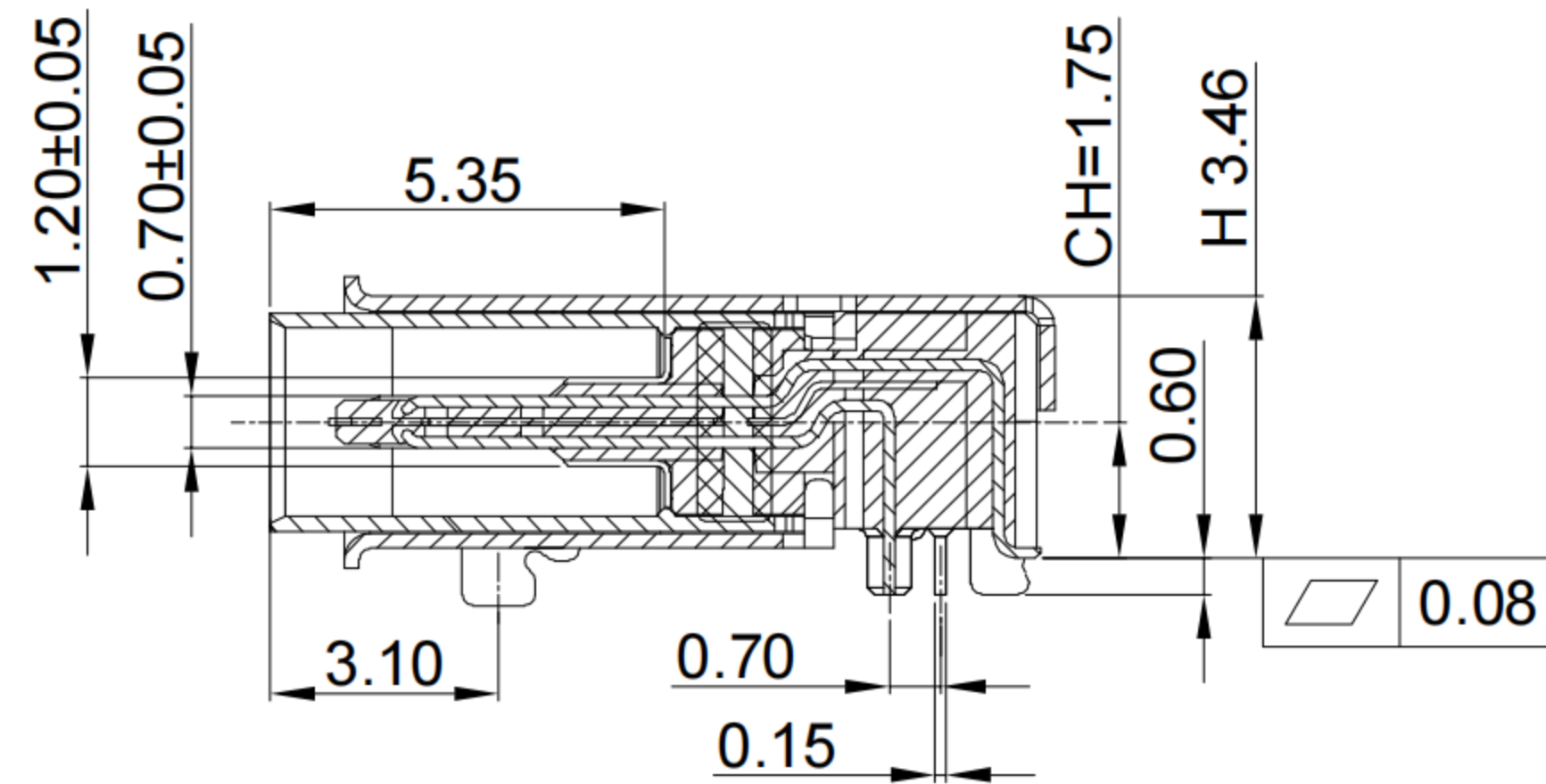
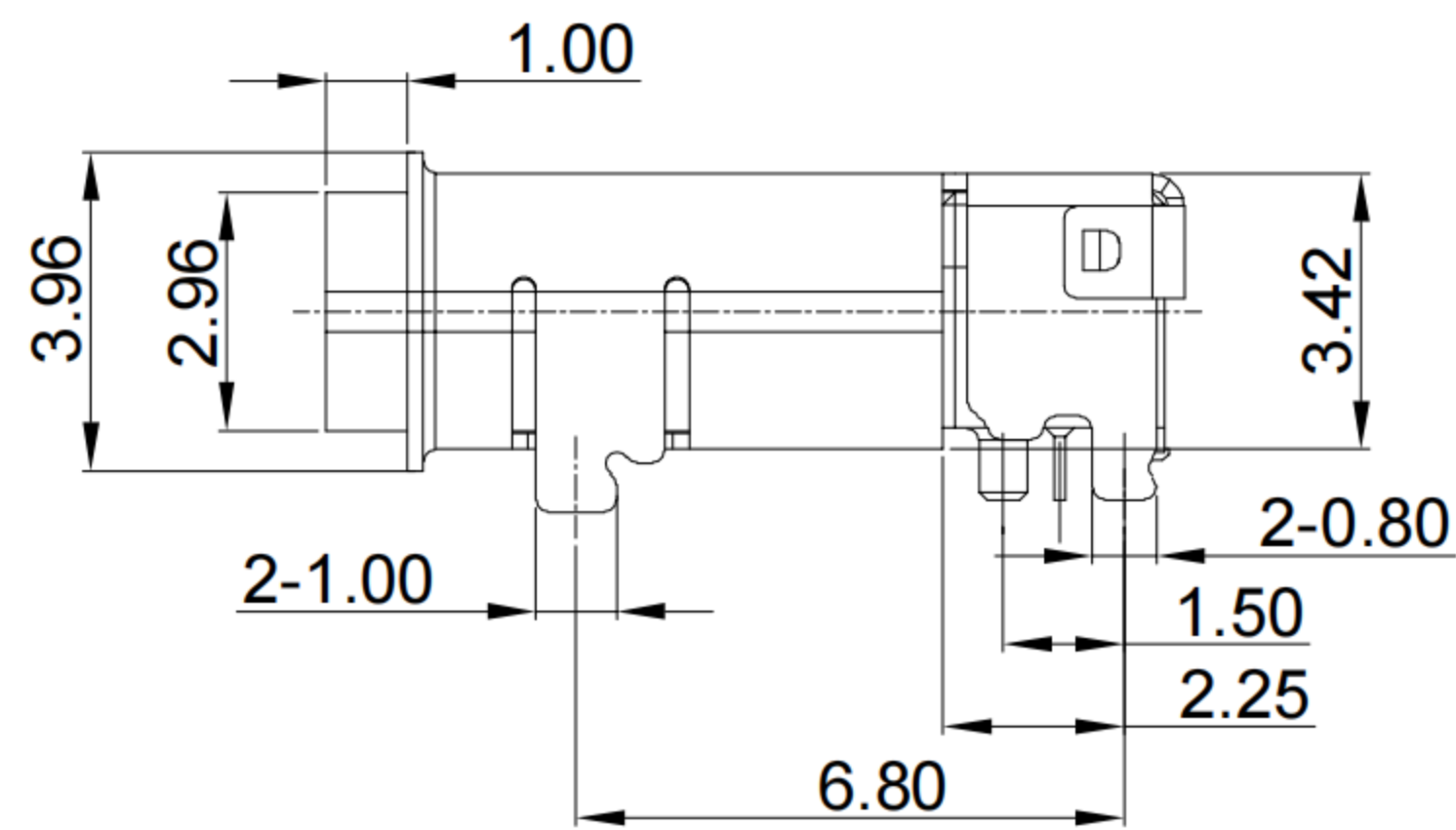
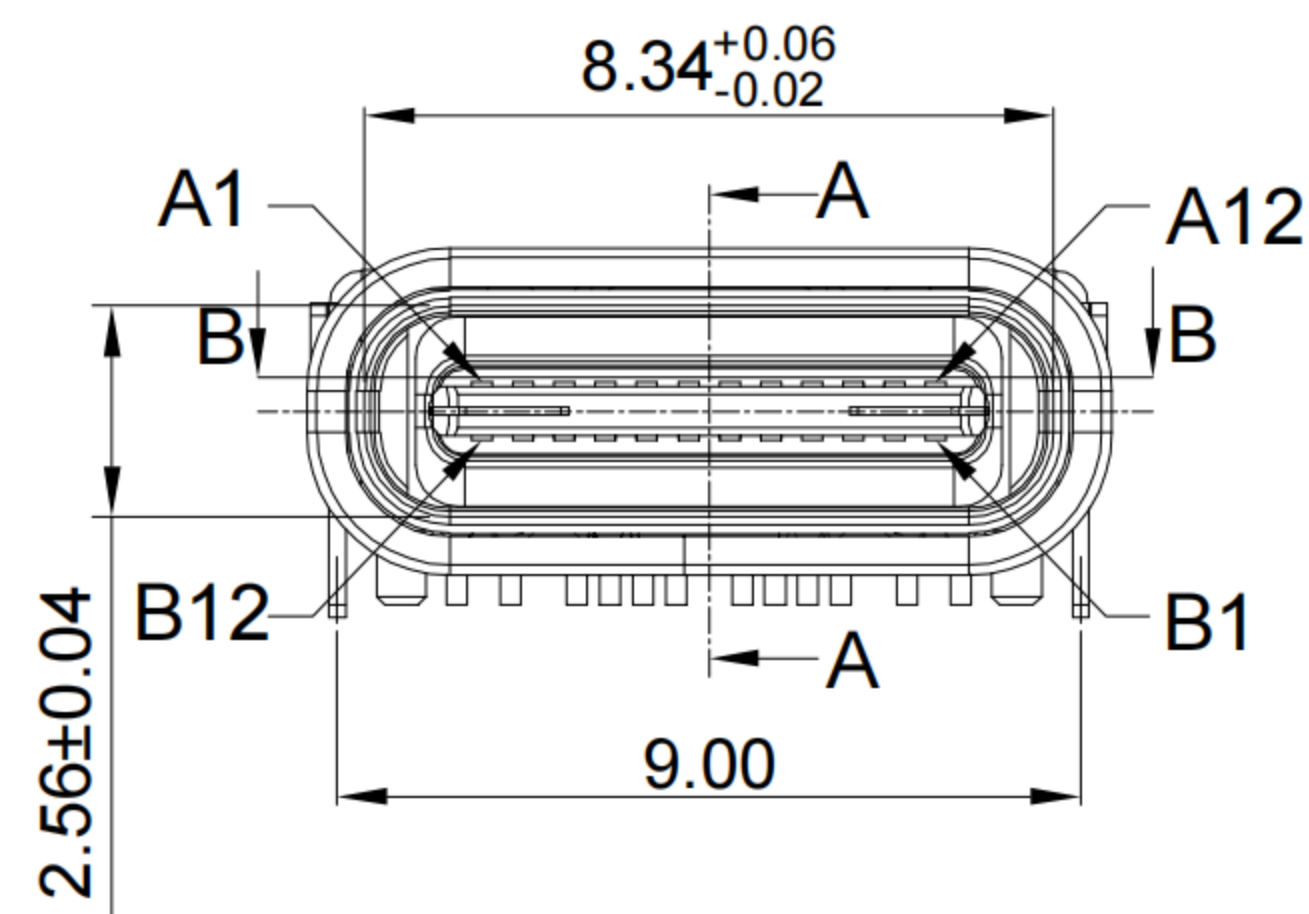
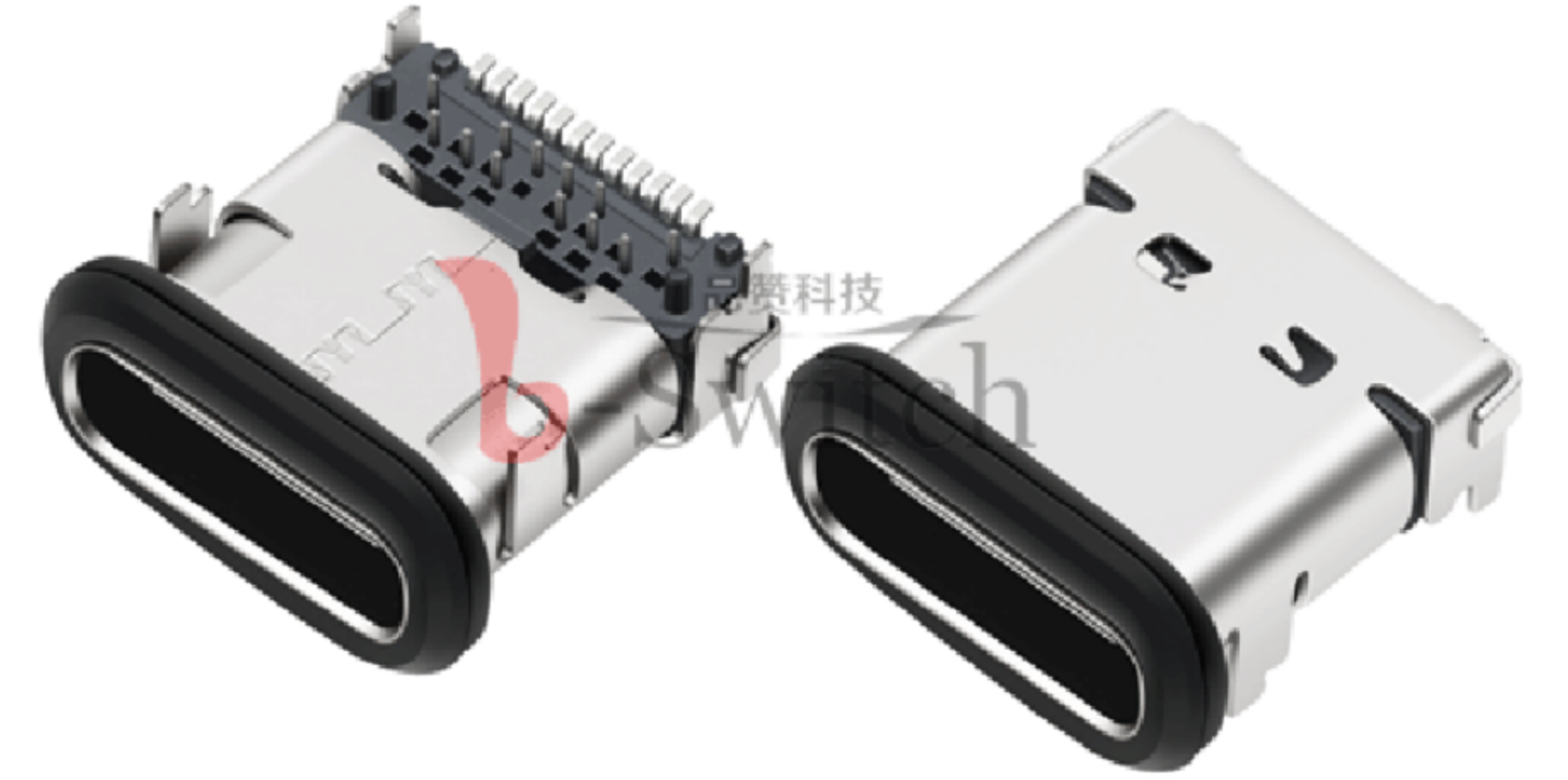
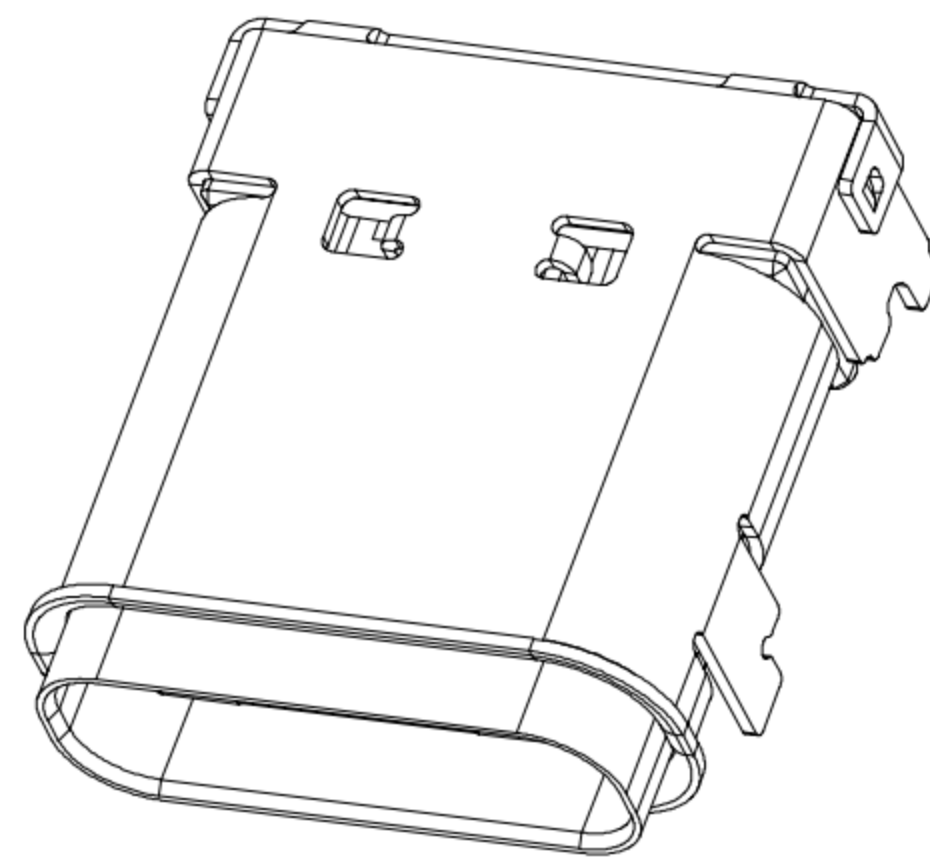
C

D

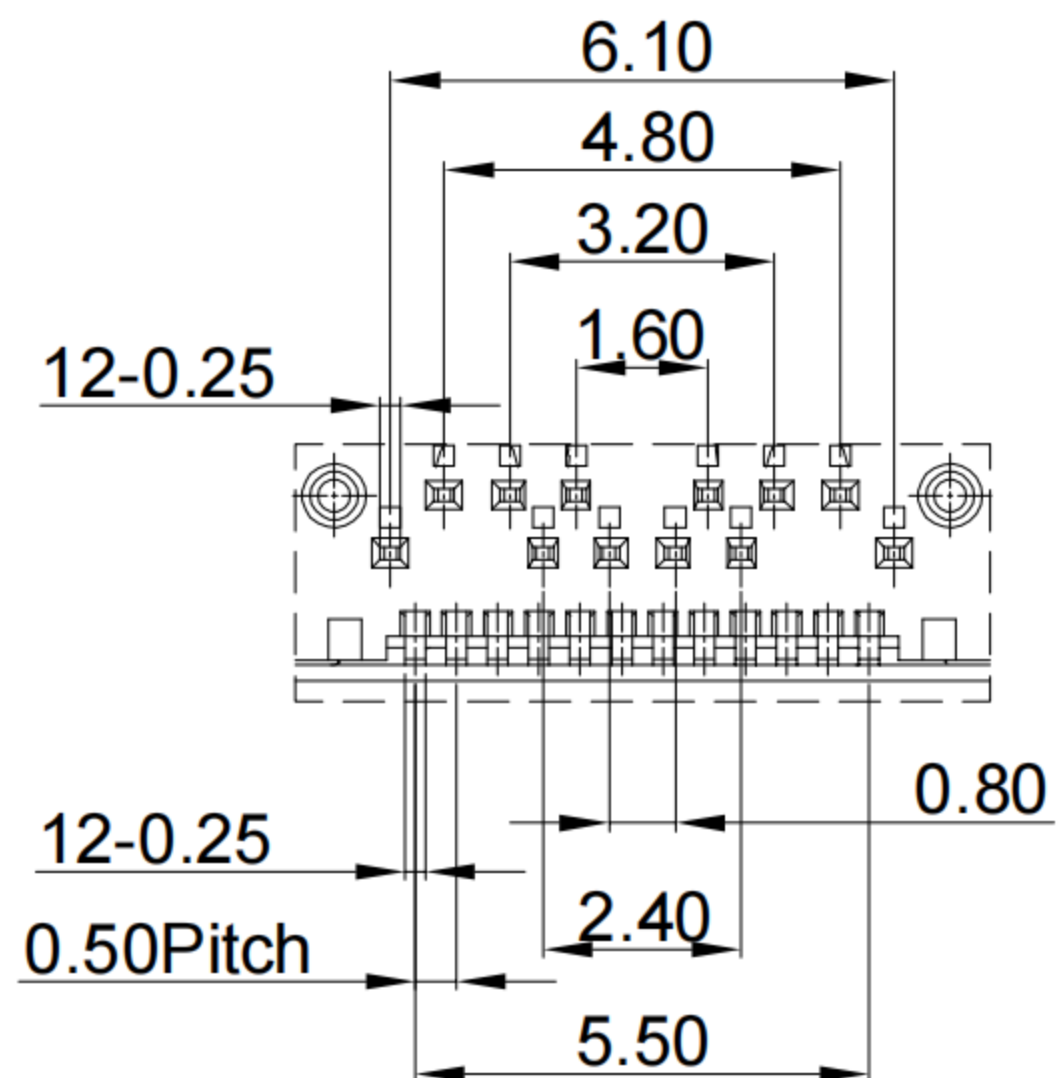
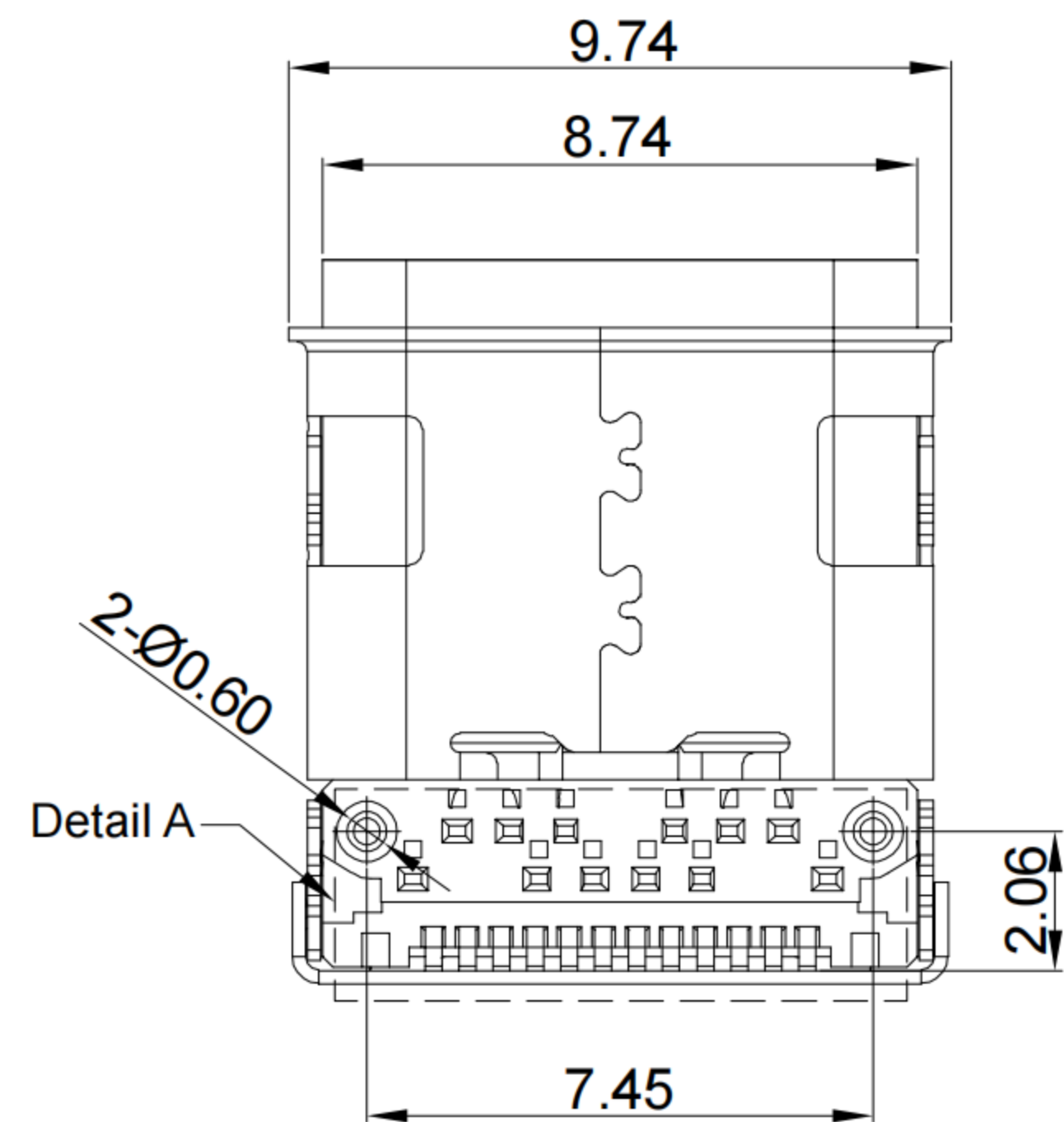
E



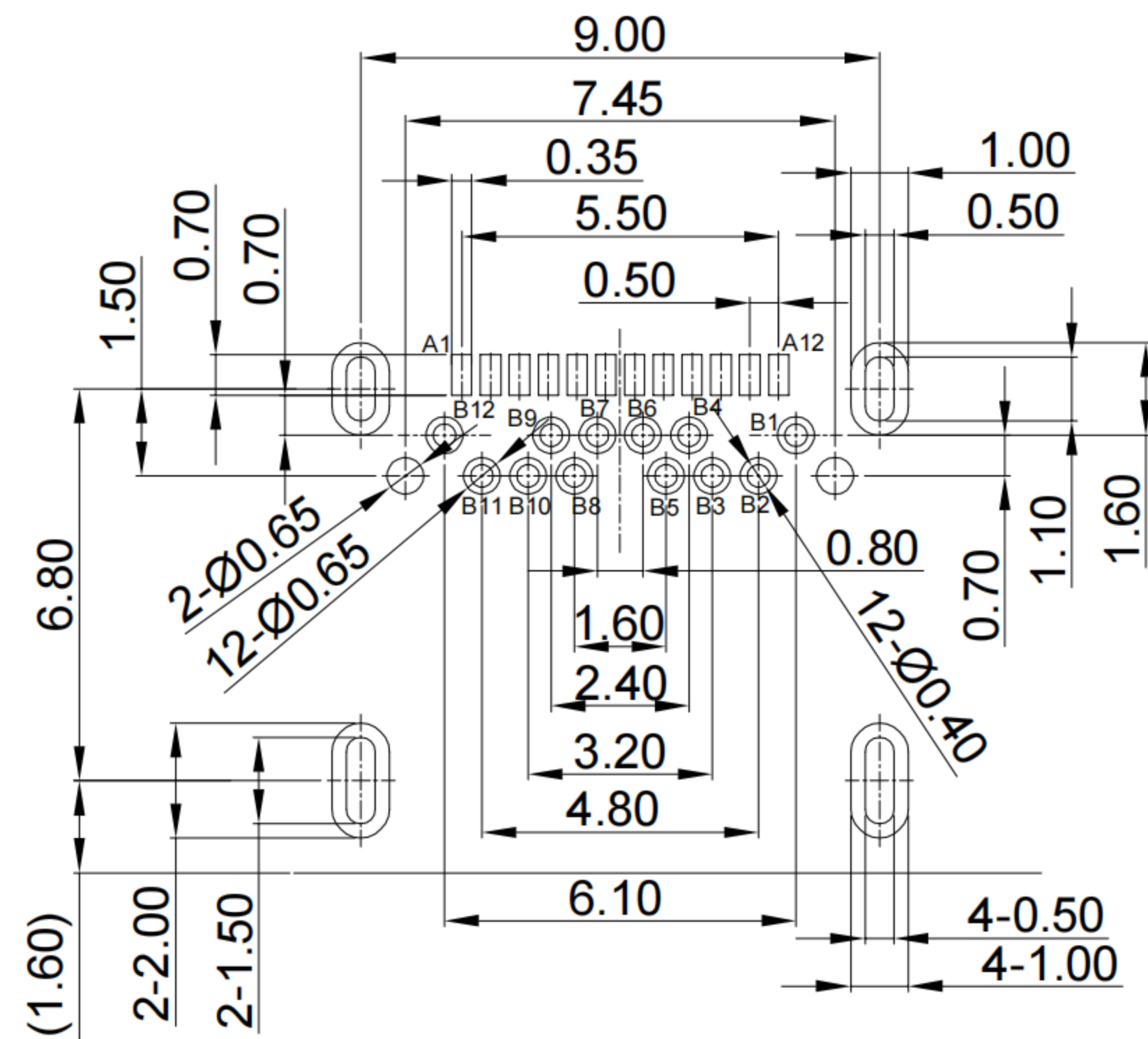
SECTION B-B



SECTION A-A



DETAIL A



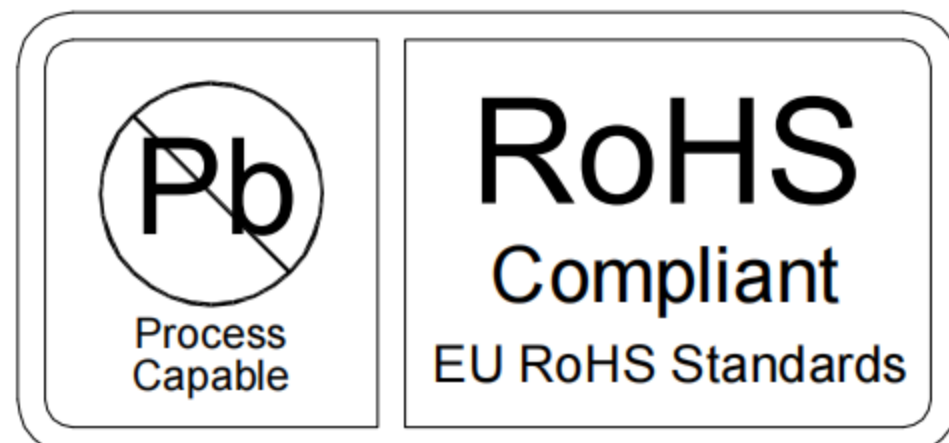
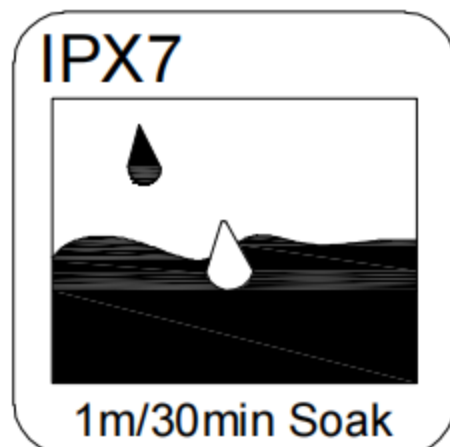
RECOMMENDED PCB LAYOUT
TOLERANCE:±0.05

G-Switch USB-C Specification:

- 1.Current rated: 5A on vbus/1.25A on vconn/0.25A on other
- Voltage rating: 24V AC
- 2.Withstanding voltage: 100V AC/minute
- 3.Contact resistance: 40mΩ Max
- 4.Insulation resistance: 100MΩ 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 5Gbp/s
- 10.Waterproof grade: IP-X7

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

NO.	PARTS	MATERIAL	REMARKS
1	COVER SHELL	STAINLESS STEEL	NI PLATED
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
7	WATERPROOF RING	SILICA GEL	Black



SCALE: 1:1 UNIT: mm
SIZE: A4

Unless otherwise
General Tolerance:
X. ±0.25
X.x ±0.20
X.xx ±0.15
X.xxx ±0.10
X° ±5°

Title: Horizontal Type-c 24P Female
SMT CH=1.75 L=10.65mm

Molde Code: GT-USB-7020A

DRAWN	CHECKED	APPROVED	DATE
Xia	Chen	Chen	2023.02.01



REV: A0 SHEET: 1/1

A

B

C

D

E

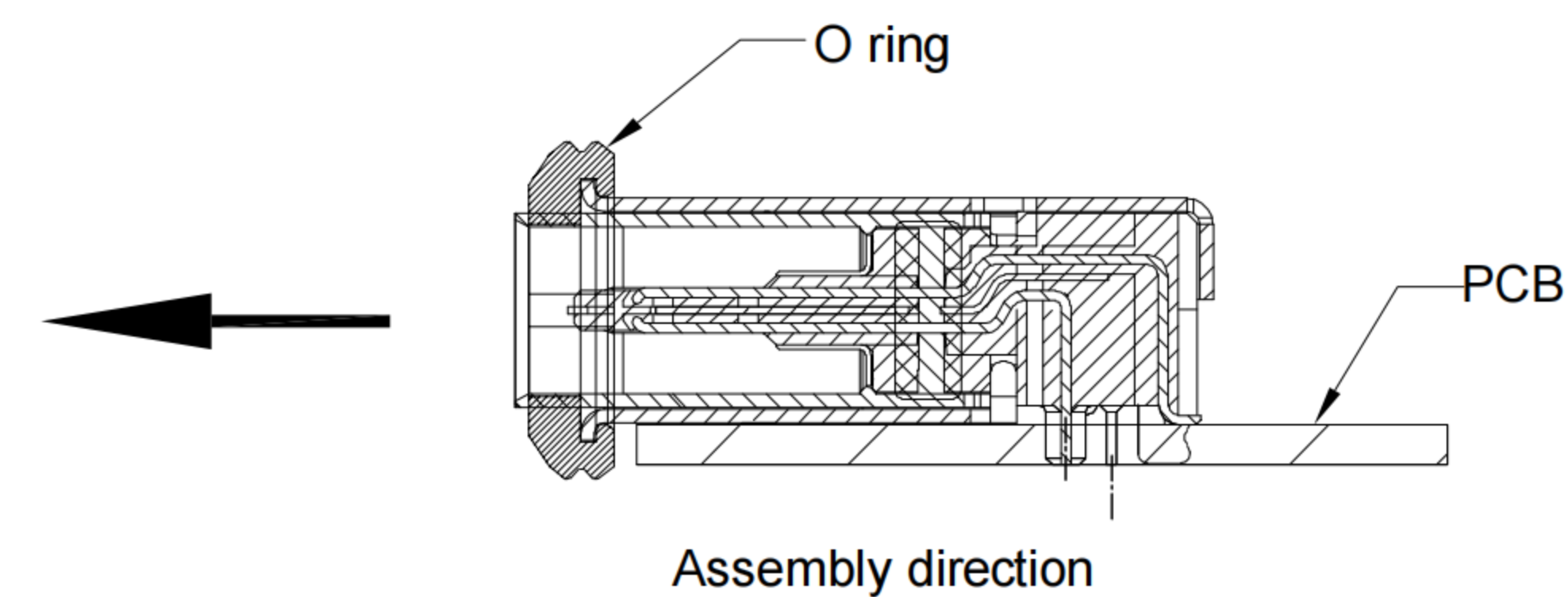
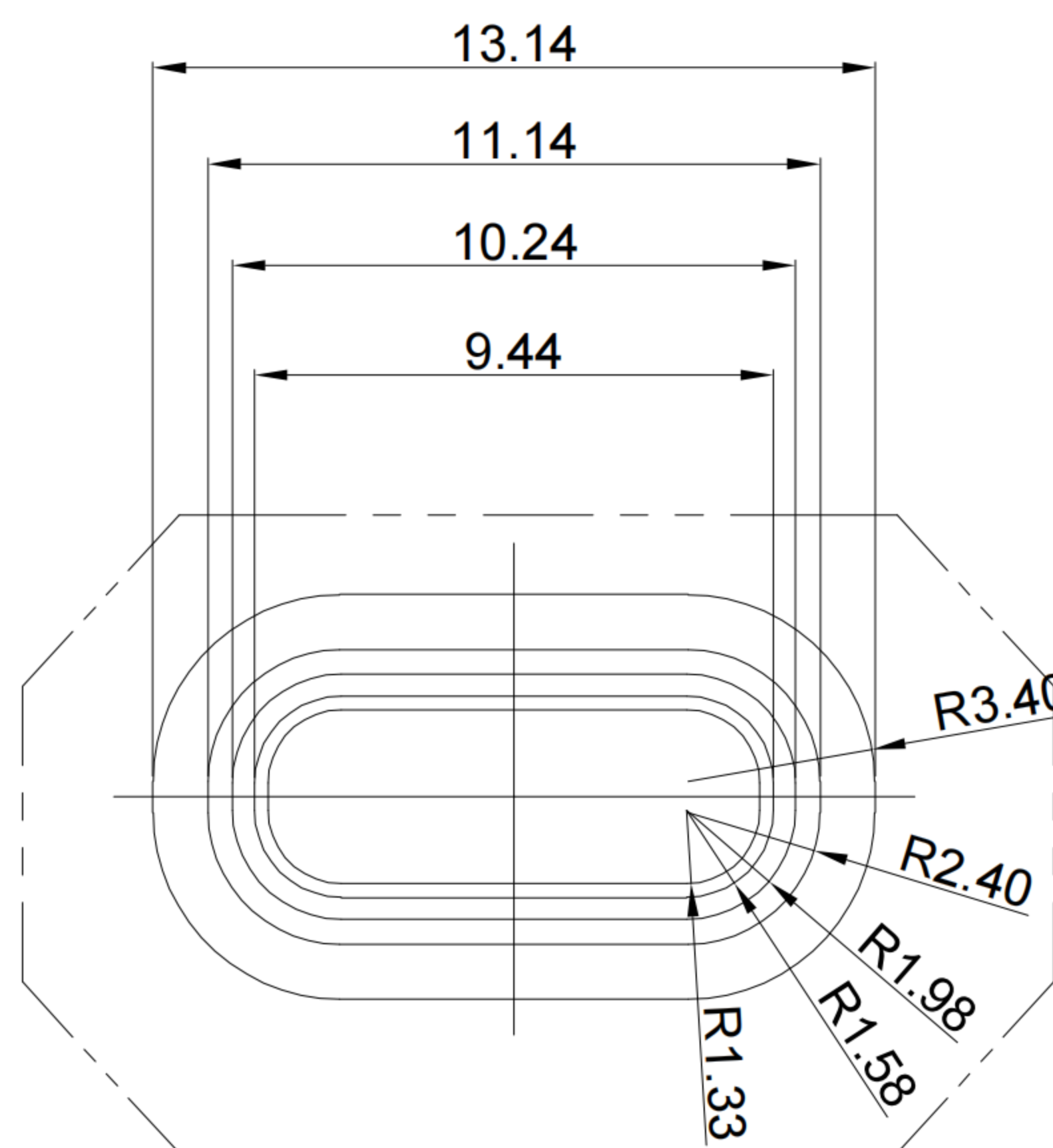
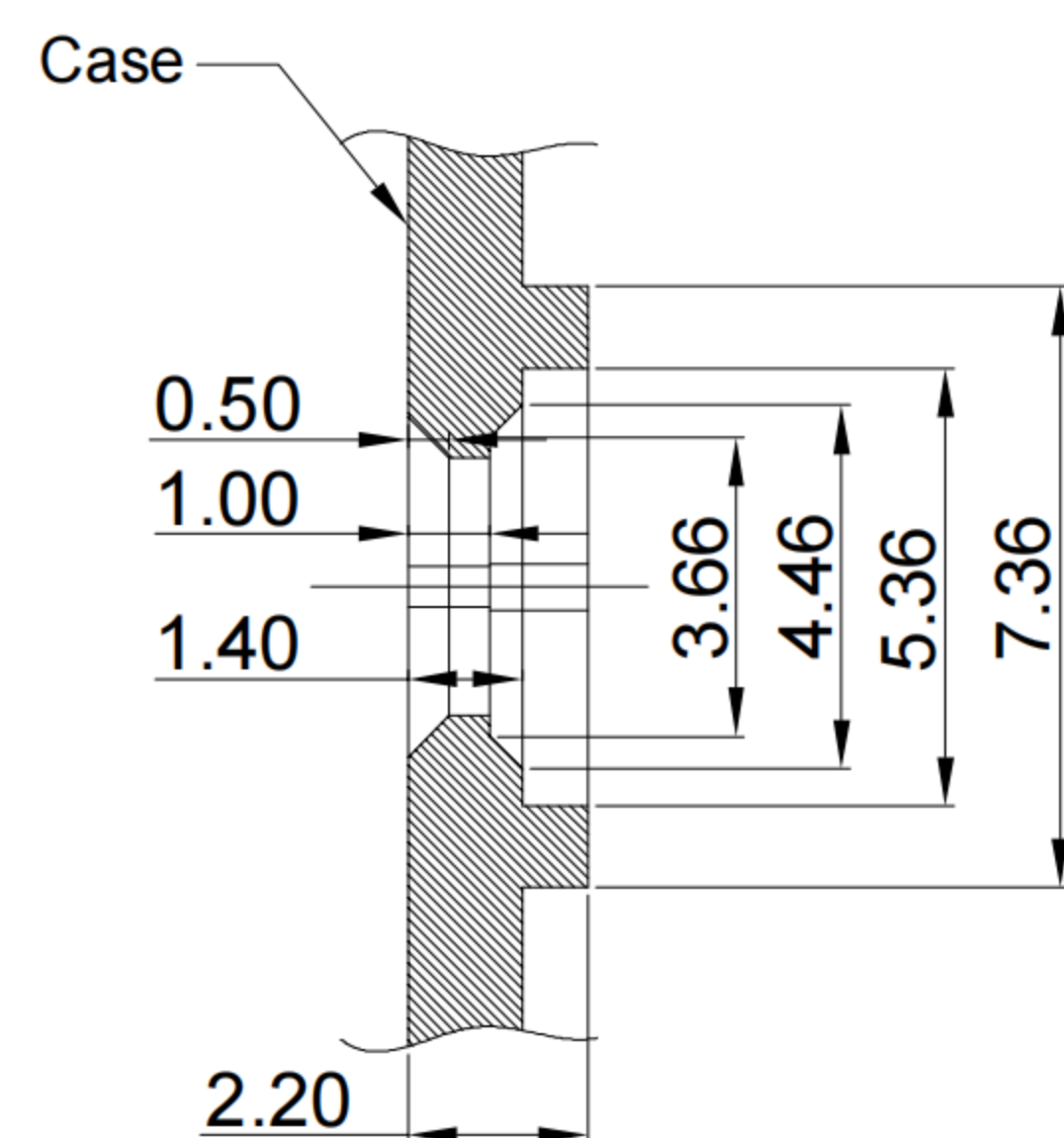
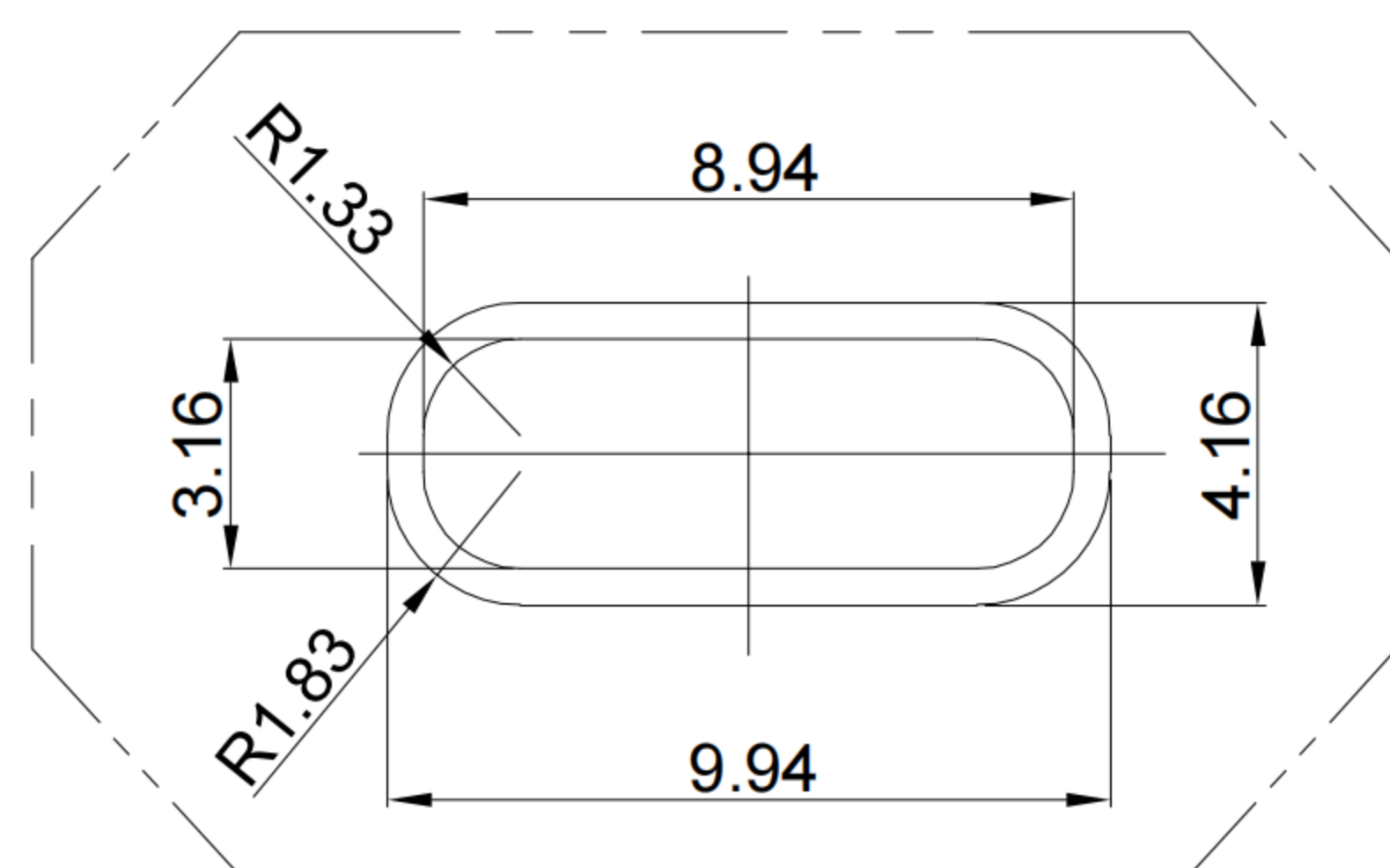
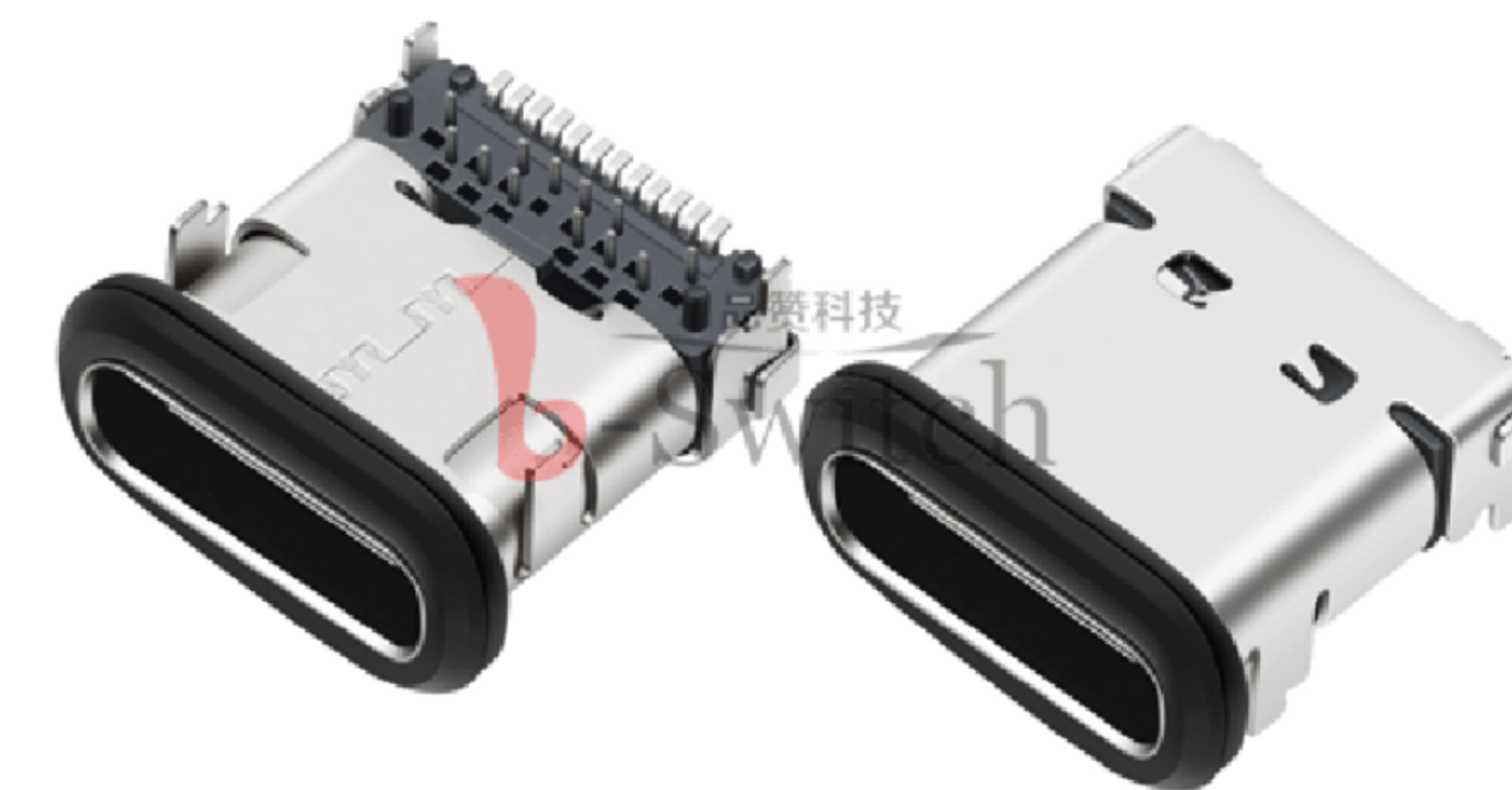
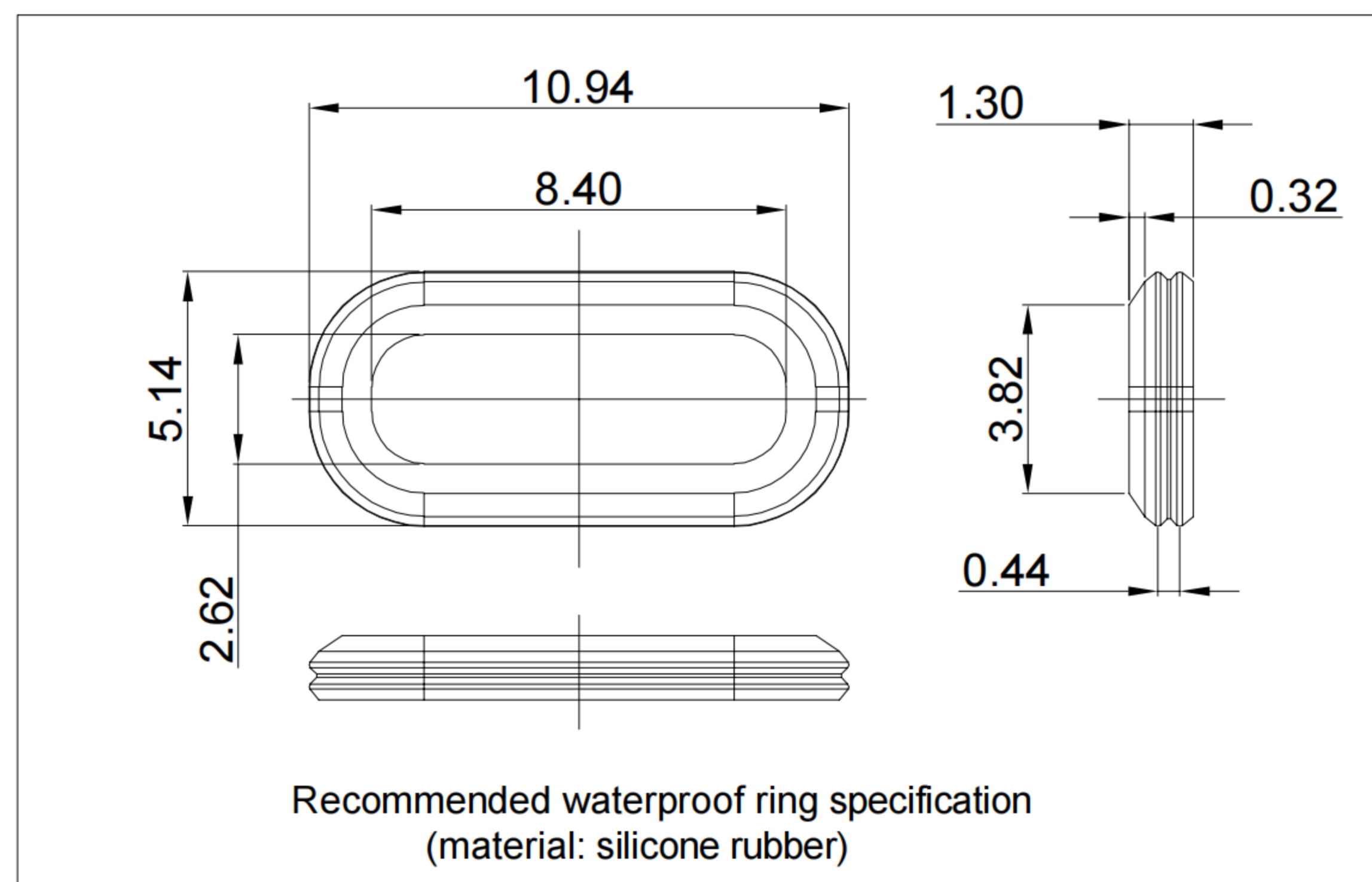
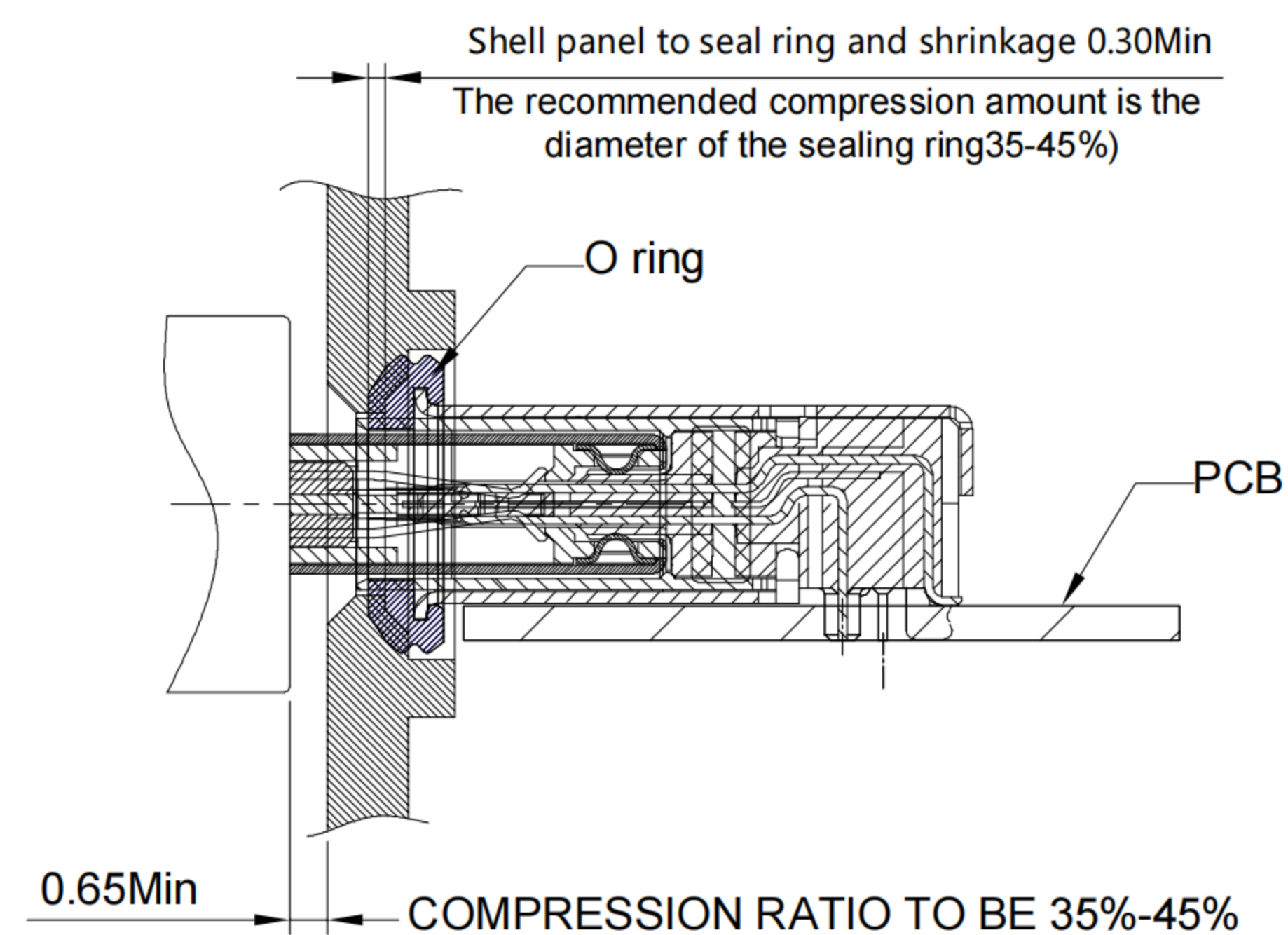
1

2

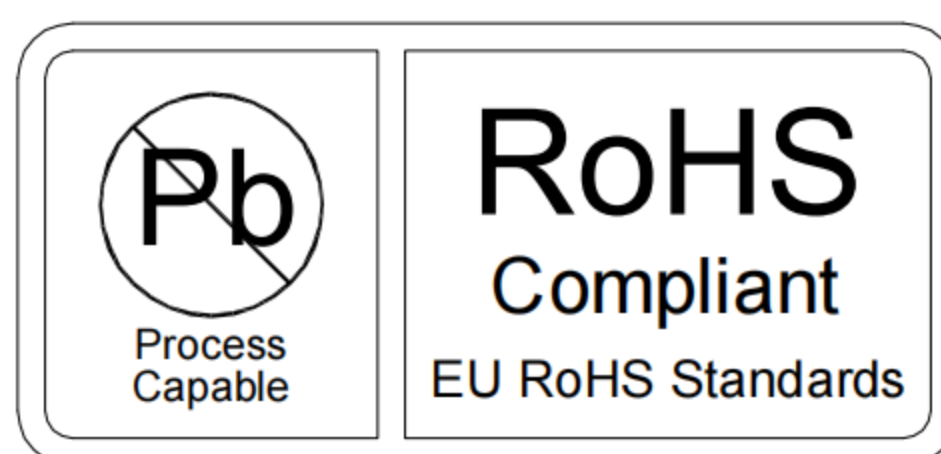
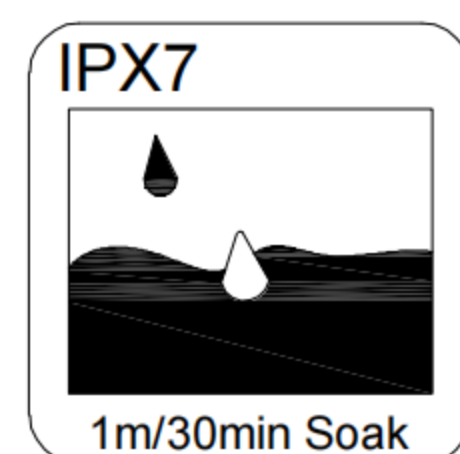
3

4

5



RECOMMENDED OPEN DIMENSION OF CASE
TOLERANCE:±0.03mm
MATTING AREA WITH SEALING RING



SCALE: 3:1	UNIT: mm	Title: Horizontal Type-c 24P Female SMT CH=1.75 L=10.65mm				 品赞科技 b-Switch www.dg-switch.com	
SIZE: A4		Molde Code: GT-USB-7020A					
Unless otherwise General Tolerance:		DRAWN	CHECKED	APPROVED	DATE		
X. ±0.25		Xia	Chen	Chen	2023.02.01	REV: A0	SHEET: 2/2
X.x ±0.20							
X.xx ±0.15							
X.xxx ±0.10							
X° ±5°							

