

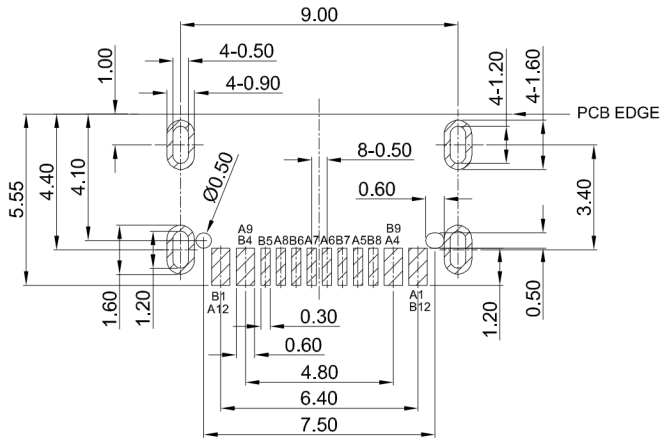
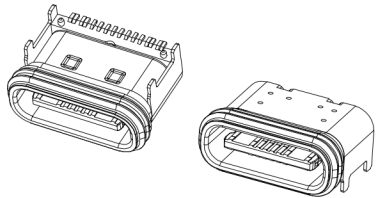
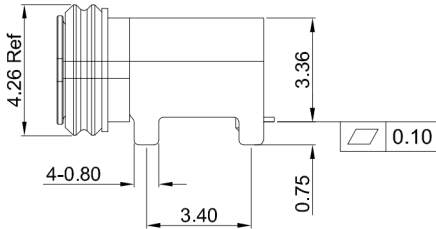
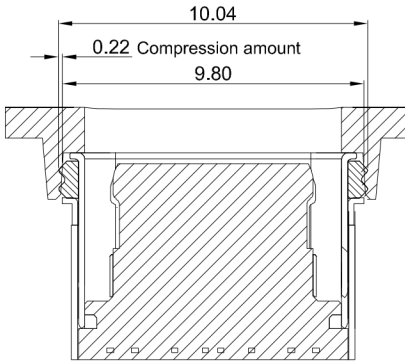
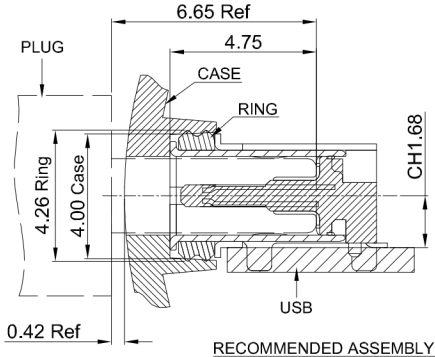
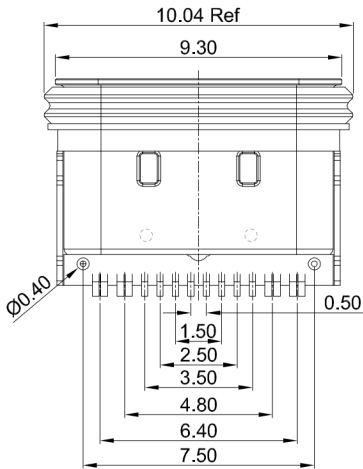
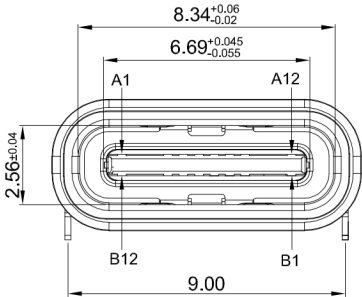
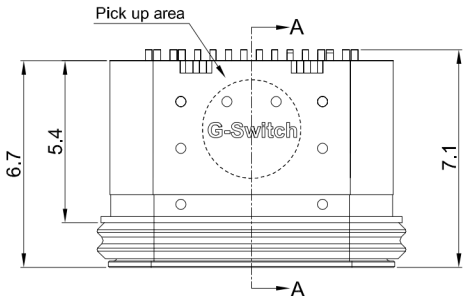
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RECOMMENDED PCB LAYOUT  
TOLERANCE: ±0.05



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.Waterproof grade: IP-X5
- 11.Compliant with: IEC62680-1-3

USB IF TID: 14251

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

| NO. | PARTS           | MATERIAL                 | REMARKS                                                             |
|-----|-----------------|--------------------------|---------------------------------------------------------------------|
| 1   | COVER SHELL     | STAINLESS STEEL304       | Ni30u"Min PLATED                                                    |
| 2   | STRETCH SHELL   | STAINLESS STEEL316       | Ni30u"Min PLATED                                                    |
| 3   | EMI             | STAINLESS STEEL316       | --                                                                  |
| 4   | MID PLATE       | STAINLESS STEEL301       | --                                                                  |
| 5   | HOUSING         | HIGH TEMPERATURE PLASTIC | PA9T BLACK UL 94 V-0                                                |
| 6   | TERMINALS       | COPPER ALLOY C7025       | Au3u" Min PLATING ON CONTACT AREA<br>G/F Min PLATING ON SOLDER AREA |
| 7   | WATERPROOF RING | SILICA GEL               | BLACK                                                               |

|                                     |          |                                                                 |         |          |            |
|-------------------------------------|----------|-----------------------------------------------------------------|---------|----------|------------|
| SCALE: 1:1                          | UNIT: mm | Title: IPX5 Horizontal Type-c 16P Female<br>SMT CH=1.68 L=6.7mm |         |          |            |
| SIZE: A4                            |          | Molde Code: GT-USB-9079E                                        |         |          |            |
| Unless otherwise General Tolerance: |          |                                                                 |         |          |            |
| X.x                                 | ±0.40    |                                                                 |         |          |            |
| X.x                                 | ±0.30    |                                                                 |         |          |            |
| X.xx                                | ±0.20    |                                                                 |         |          |            |
| X.x°                                | ±3°      |                                                                 |         |          |            |
|                                     |          | DRAWN                                                           | CHECKED | APPROVED | DATE       |
|                                     |          | Xia                                                             | Chen    | Chen     | 2024.12.01 |



REV: A0 SHEET: 1/1

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