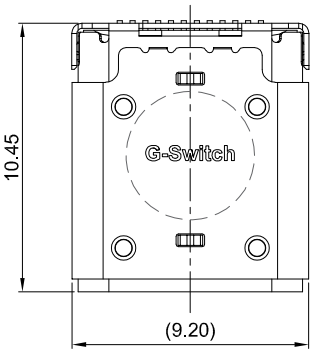
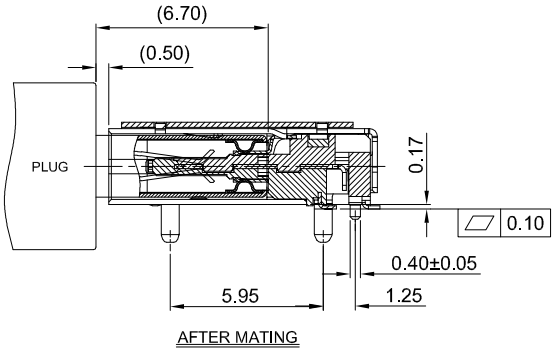
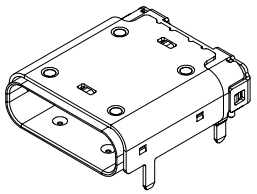
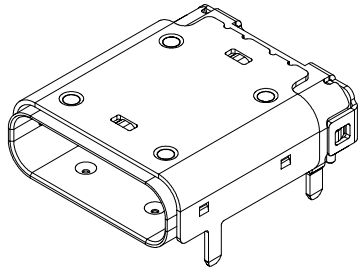
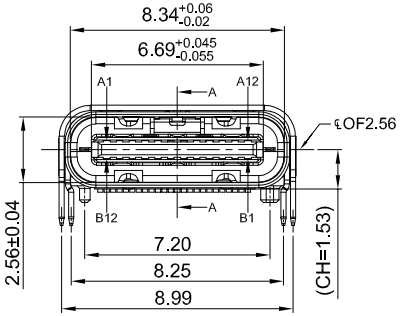


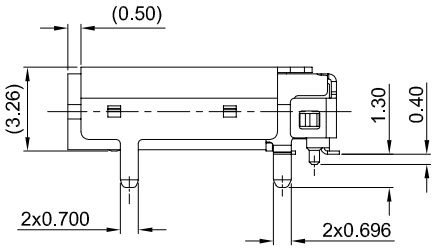



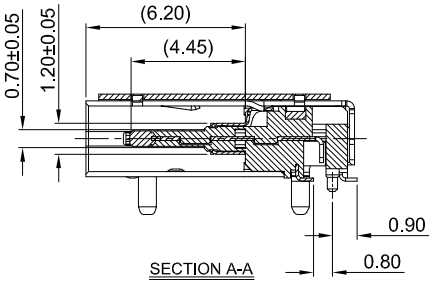

AFTER MATING



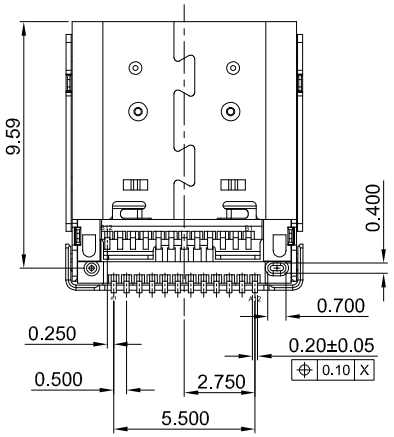


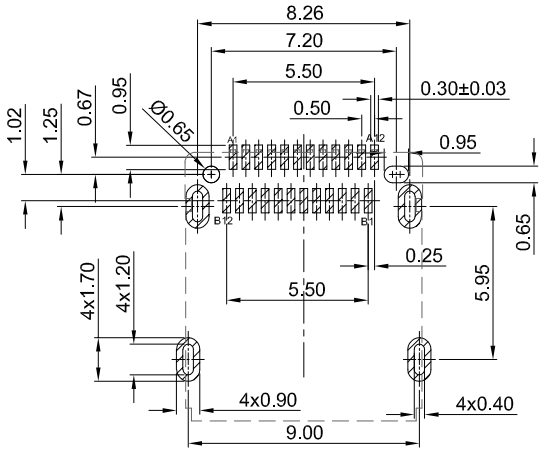



SECTION A-A




PCB REFERENCE DIAGRAM
TOLERANCE:±0.05

**G-Switch USB-C Specification:**

1.Current rated: 5A on vbus/1.25A
on vconn/0.25A on other
Voltage rating: 20V AC/DC
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,after durability test: 6N~20N
8.Durability cycle:10,000 cycles
9.Data transmission rate up to 5Gbps

| 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 | OUT SHELL | SUS301 | Ni30μ"MIN PLATED |
| 2 | FRONT SHELL | SUS304 | Ni30μ"MIN PLATED |
| 3 | GND PLATE | SUS304 | -- |
| 4 | MID PLATE | SUS301 | Ni30μ"MIN PLATED |
| 5 | HOUSING | LCP | BLACK UL 94V-0 |
| 6 | TERMINALS | C18150 | Au3μ" PLATED ON CONTACT AREA<br>G/F PLATED ON SOLDER AREA |

Pb Process Capable

RoHS Compliant EU RoHS Standards

Compliant Halogen Free

| | |
|---|---|
| SCALE: 1:1 | UNIT: mm |
| SIZE: A4 | |

Unless otherwise General Tolerance:

| | |
|---|---|
| X. | ±0.40 |
| X.x | ±0.30 |
| X.xx | ±0.20 |
| X.xxx | ±0.10 |
| X° | ±5° |

Title: Horizontal Type-C 24P Female SMT CH=1.53 L=10.45mm

Molde Code: GT-USB-7024A

| DRAWN | CHECKED | APPROVED | DATE |
|---|---|---|---|
| Xia | Chen | Chen | 2025.03.10 |

品赞科技 G-Switch www.dg-switch.com

REV: A0

SHEET: 1/1