

A

B

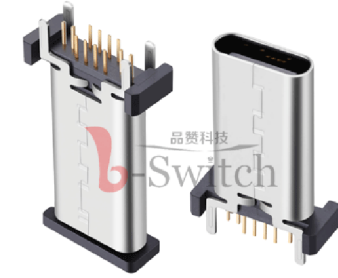
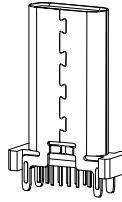
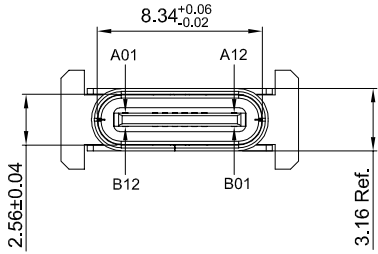
C

D

E

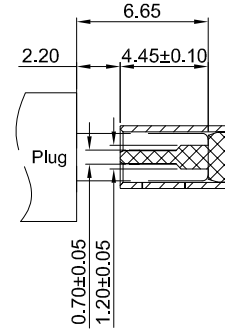
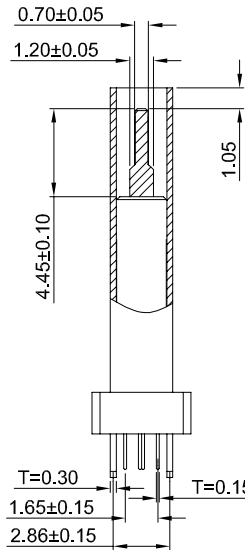
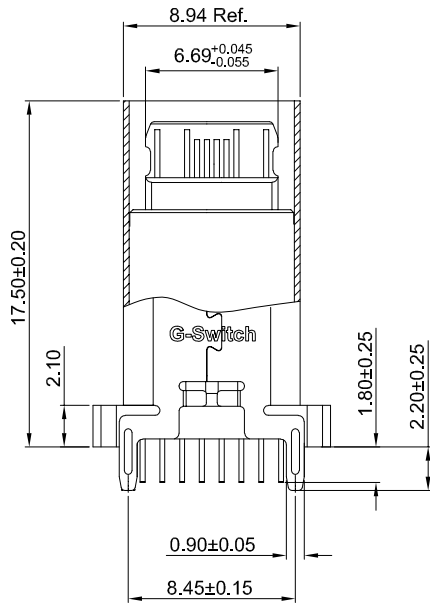
1

1



2

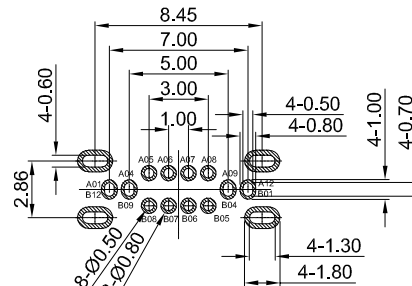
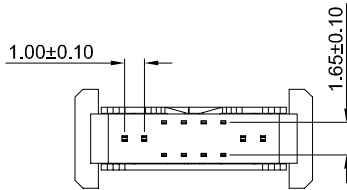
2



AFTER MATING

4

4



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
9. Salt spray test: 48H

| | | | | | | | | | | | |
|-------|-----|-----|-------|--------|--------|--------|--------|-------|-----|-----|-------|
| 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 |

5

5

| | | | |
|-----|-----------|--------------------------|----------------------------|
| 1 | SHELL | STAINLESS STEEL304 | Ni PLATED |
| 2 | MID PLATE | STAINLESS STEEL304 | Ni PLATED |
| 3 | TERMINALS | COPPER ALLOY C7025 | Au PLATING ON CONTACT AREA |
| 4 | HOUSING | HIGH TEMPERATURE PLASTIC | LCP BLACK UL 94 V-0 |
| 5 | CAVER | HIGH TEMPERATURE PLASTIC | LCP BLACK UL 94 V-0 |
| NO. | PARTS | MATERIAL | REMARKS |

SCALE: UNIT: mm
SIZE: A4

Unless otherwise
General Tolerance:
X. ±0.25
X.x ±0.20
X.xx ±0.15
X.xxx ±0.10
X* ±2°

| | | | |
|---|---------|----------|------------|
| Title: Vertical Type-C 16P Female DIP H=17.5mm | | | |
| Molde Code: GT-USB-7038H | | | |
| DRAWN | CHECKED | APPROVED | DATE |
| Xia | Chen | Chen | 2023.02.01 |



REV: A0 SHEET: 1/1

A

B

C

D

E