



- 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. 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 |

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

RECOMMENDED PCB LAYOUT  
TOLERANCE: ±0.05

Process Capable

**RoHS**  
Compliant

EU RoHS Standards

Compliant

Halogen Free

|  |          |   |            |
|--|----------|---|------------|
| SCALE: 1:1                             | UNIT: mm | Title: Vertical Type-c 16P Female<br>DIP H=13.7mm |            |
| SIZE: A4                               |          | Molde Code: GT-USB-7038F                          |            |
| Unless otherwise<br>General Tolerance: |          | DRAWN   | CHECKED    |
| X.                                     | ±0.25    | Xia   | Chen       |
| X.x                                    | ±0.20    |   |            |
| X.xx                                   | ±0.15    |   |            |
| X.xxx                                  | ±0.10    |   |            |
| X°                                     | ±2°      |   |            |
|  |          | APPROVED  | DATE       |
|  |          | Chen  | 2023.02.01 |

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|         |            |
|---------|------------|
| REV: A0 | SHEET: 1/1 |
|---------|------------|

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