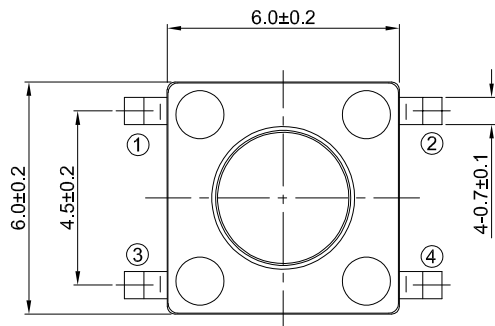


## GT-TF089 B-H050- L3

### G-Switch

#### Operating Force

A=160gf D=70gf  
B=250gf E=130gf  
C=100gf F=320gf  
G=400gf J=180gf

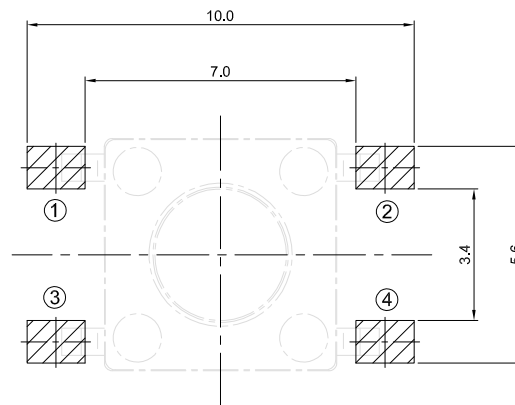
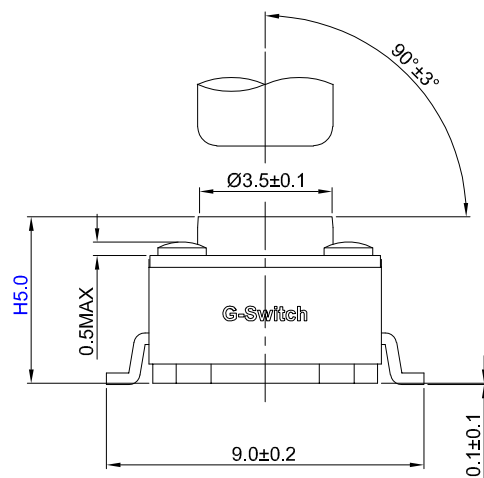
#### Switch Lifetime (Force)

L05=50,000 Cycles (B, F, G)  
L1=100,000 Cycles(A, B)  
L3=300,000 Cycles(A, B, C, D, E)  
L5=500,000 Cycles(A, B, C, D, E)

#### Switch Height (mm) A=ØA

H043=4.3 A=3.5 H045=4.5 A=3.5  
H050=5.0 A=3.5 H055=5.5 A=3.5  
H060=6.0 A=3.5 H065=6.5 A=3.5  
H070=7.0 A=3.3 H080=8.0 A=3.3  
H085=8.5 A=3.3 H090=9.0 A=3.3  
H095=9.5 A=3.0 H100=10.0 A=3.0  
H105=10.5 A=3.0 H110=11.0 A=3.0  
H115=11.5 A=3.0 H120=12.0 A=3.0  
H125=12.5 A=3.0 H130=13.0 A=3.0  
H135=13.5 A=3.0 H140=14.0 A=3.0  
H145=14.5 A=3.0 H150=15.0 A=3.0  
H155=15.5 A=3.0 H160=16.0 A=3.0  
H165=16.5 A=3.0 H170=17.0 A=3.0  
H175=17.5 A=3.0 H180=18.0 A=3.0

#### Keying Tip Tilt

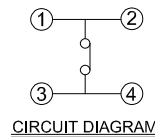


RECOMMENDED PCB LAYOUT  
TOLERANCE:±0.05

### G-Switch Specification:

- Operating temperature range: -40°C ~ +85°C
- Rating: 50mA, 12V DC
- Insulation resistance: 100MΩ min, 100V DC
- Dielectric strength: 250V AC for 1 min
- Contact resistance: 100mΩ max.
- Travel: 0.25±0.10mm

|     |           |                 |            |
|-----|-----------|-----------------|------------|
| 5   | COVER     | STAINLESS IRON  | -          |
| 4   | STEM      | PA6T            | BLACK      |
| 3   | CONTACT   | STAINLESS STEEL | Ag PLATING |
| 2   | TERMINAL  | COPPER ALLOY    | Ag PLATING |
| 1   | BASE      | PA6T            | BLACK      |
| NO. | PART NAME | MATERIAL        | REMARK     |



CIRCUIT DIAGRAM



|                                        |                                                                                       |                                                   |         |          |            |                                                                                                                                         |            |
|----------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|---------|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|
| SCALE: 1:1                             | UNIT: mm                                                                              | Title: Vertical Tact Switch<br>SMT 6.0×6.0×H5.0mm |         |          |            | <div>品赞科技<br/>www.dg-switch.com</div> <div>®</div> |            |
| SIZE: A4                               |  | Molde Code: GT-TF089B-H050-L3                     |         |          |            |                                                                                                                                         |            |
| Unless otherwise<br>General Tolerance: |                                                                                       |                                                   |         |          |            |                                                                                                                                         |            |
| X.                                     | ±0.40                                                                                 | DRAWN                                             | CHECKED | APPROVED | DATE       | REV: A0                                                                                                                                 | SHEET: 1/1 |
| X.x                                    | ±0.30                                                                                 |                                                   |         |          |            |                                                                                                                                         |            |
| X.xx                                   | ±0.20                                                                                 |                                                   |         |          |            |                                                                                                                                         |            |
| X°                                     | ±3°                                                                                   |                                                   |         |          |            |                                                                                                                                         |            |
|                                        |                                                                                       | Jiang                                             | Xia     | Chen     | 2025.03.15 |                                                                                                                                         |            |