MICRO SWITCH



FEATURES

- Small compact size suitable for electric equipment appliances and P.C.B. layout
- 2-piece spring mechanism design offering durable acute operation and long life
- Heavy/Light operation force specifications
- Three Kinds of terminal available soldering, printing and quick connect type
- RoHS Compliant

APPLICATIONS

- Communication equipment
- Vending machines
- Security systems
- Medical equipment
- Office automation appliances
- Home electric appliances
- A car use

■ SPECIFICATIONS

1. ELECTRICAL

| DESCRIPTION | | | TP309-05 | TP309-10 |
|-------------------------------------|-------------------|------------------------|-----------|-----------|
| | AC 125V | | 5A | |
| Contact Rating: | AC 250V | 3A | | 10A |
| Contact Resistance: (Initial) | DC 30V | | | |
| | O.F.1.47N (150gf) | | 30mΩ Max. | 30mΩ Max. |
| | O.F.0.49N (50gf) | | 50mΩ Max. | |
| | O.F.0.25N (25gf) | | | |
| Insulation Resistance | | 100 MΩ Min. at 500 VDC | | |





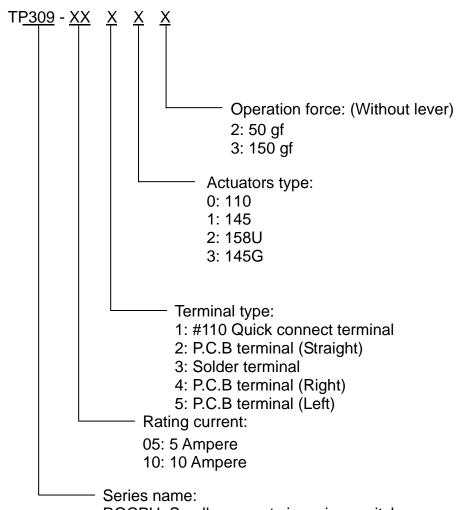
2. CHARACTERISTICS

| | TYPE | | | | |
|---|---|---|-------------|-------------|--|
| DESCRIPTIC | | | TP309-05 | TP309-10 | |
| Mechanical Life (Cycles Operations) | | | 1,000,000 | 1,000,000 | |
| Electrical Life (Cycles Operations) | | | 50,000 | 50,000 | |
| Ambient Temperature | | -25°C to +85°C (without dew condensation) | | | |
| Ambient Humidity | | Max. 85% RH | | | |
| Max. | Mechanical | 400 cycle/min. | | | |
| operating cycle rate | Electrical | 60 cycle/min. | | | |
| Allowable Operation speed | | 0.1 to 1,000 mm/sec (without lever) | | | |
| Dielectric Strength | Between non-continuous terminal | | AC 1000Vrms | AC 1000Vrms | |
| | Between each terminal and other exposed metal parts | AC 1500Vrms | | | |
| | Between each terminal and ground | AC 1500Vrms | | | |
| Vibration Resistance (Without lever) | | 10 to 55 Hz amplitude of 1.5mm | | | |
| Shock Resistance (Without lever) | O.F.1.47N (150gf) | 300m/s ² {30G}Min. | | | |
| | O.F.0.25N (25gf) | 200m/s ² {20G}Min. | | | |
| | O.F.0.49N (50gf) | 200m/s ² {20G}Min. | | | |
| Unit weight | | Approx 1.6g | | | |





■ PART NUMBERING SYSTEM



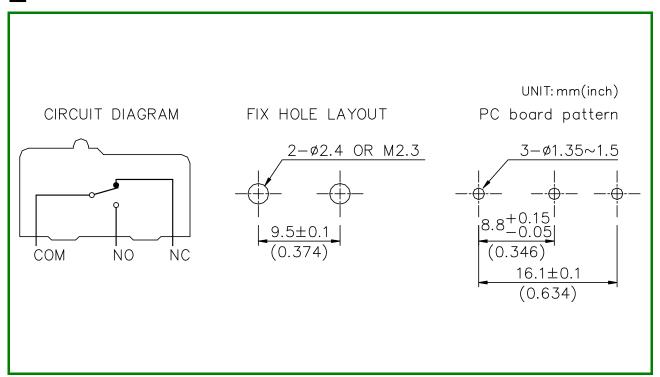
ROCPU: Small compact size micro switch

| Actuators type | | |
|----------------|------|---|
| 0 | 110 | 1 |
| 1 | 145 | |
| 2 | 158U | |
| 3 | 145G | R |

| Terminal type | | | | |
|---------------|-----------------------------|--|--|--|
| 1 | #110 Quick connect terminal | | | |
| 2 | P.C.B terminal (Straight) | | | |
| 3 | Solder terminal | | | |
| 4 | P.C.B terminal (Right) | | | |
| 5 | P.C.B terminal (Left) | | | |



■ CIRCUIT DIMENSIONS



DIMENSIONS

