GT02系列按键开关/ GT02 Series Keyswitch

■ 特点 Features:

- ●台面配置型,从PCB端算起0.60英寸(15.2毫米)(无键帽) Desktop profile, 0.60 inch (15.2mm) from PCB (no keycap)
- ●触感的选择:平滑型,触感型,咔嗒转换型 Choice of feel:linear,soft tactile,click tactile
- ●PCB 针脚或框架型 PCB or frame mount
- ●高达5000万次的操作寿命

Long life to 50 million operation cycles

●有LED, 二极管,或者跳动型可供选择

LED, diode or jumper option

●最大12V AC/DC 12V AC/DC maximum

●额定电流: 10mA Current Rating: 10mA

●绝缘电阻<100MΩ (在 100V DC下)

Insulation Resistance:<100M Ω under 100VDC



■ 用途 Applications:

主要应用于电脑键盘点钞机 工业设备和机器接口设备

Mainly applied on computer keyboards, cash registers, industrial equipment and Man-Machine interfaces

■ 规格参数 Specification and Parameters:

| 电气特性 Electrical Characteristics | 额定负荷 Rating | 12VDC/AC max. 10mA AC/DC max |
|---------------------------------------|----------------------------------|---|
| | 接触电阻 Contact Resistance | 200mΩ Max(25mΩ typical)(初始值 Initial Value) |
| | 绝缘电阻 Insulation Resistence | 100 MΩ Min |
| | 耐电压 Voltage Resistance | AC 100V (50-60Hz) 1 Minute |
| | 电气寿命 Eletrical life | Over 50,000,000 cycles (Load) |
| | 弹跳时间 Bounce Time | 操作速度为 400mm/s 5 msec(operation speed at 400mm/sec) |
| 特性参数 Parameters | 操作力 Operating force | 见具体规格表 See Detail Spec |
| | 行程 Pre-travel | 2.0 ± 0.6 mm |
| | 全行程 Total Trave | 4.0 ± 0.4mm |
| | 机械寿命 Mechanical Life | 5,000万次以上(无负载下) Over 50,000,000 cycles (No Load) |
| | 使用温度 Operating Temperature Range | -40°C∼+80°C |
| | 使用湿度 Ambient Humidity | ≤85%RH |
| | 可焊性 Solder Ability | 260°C ± 5°C 3s ± 0.5s |
| | 耐焊接热 Soldering Heat Resistance | 260°C ± 5°C 3s ± 1s |
| | 手工焊接 Soldering by Hand | 焊接时,使用30瓦烙铁,控制在350℃约3秒 Use a 30 watts soldering iron for about 3S at 350℃ while soldering |

■ 焊接参数 Solding Parameters:

1. 熔融条件 Flux Station

A.GR8干熔型 Flux – Dry type GR8
B.需发泡 Applied by foaming

C.特别比重-0.820g/cm3 Specific Gravty-0.820g/cm3

2. 输送速度 Conveyor Speed

A.2.3米/分钟 2.3 meters/min

3. 预热温度 Pre-heat Temperature

A.PCB 表面温度为+85℃ Temperature of PCB surface:+85℃

4.焊接 Solder

A.63/37合金 63/37 alloy

B. 干波,无油 Dry wave - no oil

C.大约接触波段2秒 Approximate contact with wave for 2 seconds

5.清洗 Cleaning

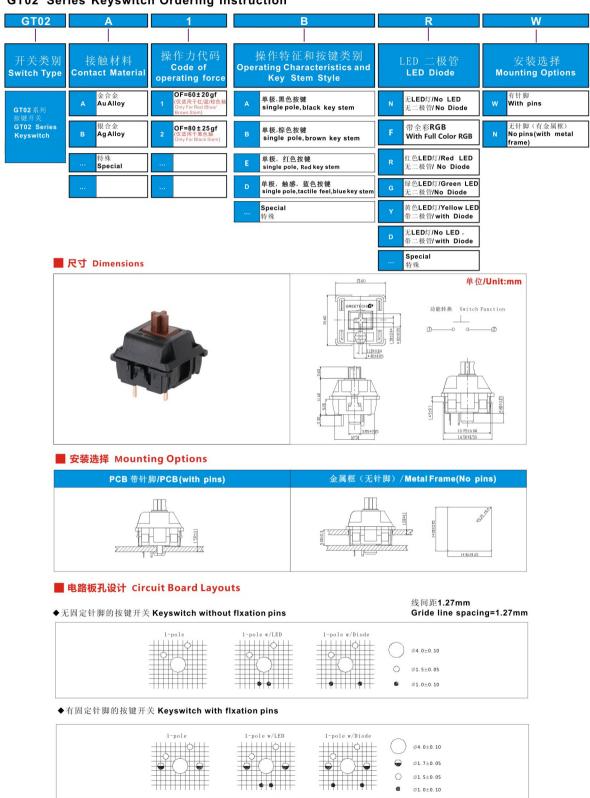
A.GR8干熔型,不吸湿,不需要清洁 Flux-Dry GR8 is non-hygroscopic flux and does not require cleaning B.建议冷却后在单独的局域用 Alpua 564手洗,注意溶剂不要流入组件中。

Cleaning is suggested on isolated areas, cold cleaning by hand with Alpua 564 is recommended, Care must be taken to avoid solvent entering the keymodule.

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GT02 系列按键开关订货指引

GT02 Series Keyswitch Ordering Instruction



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GT04系列薄型按键开关/ **GT04 Series Ultra-thin Keyswitch**

■ 特点 Features:

●超薄型,从PCB端算起0.31英寸(7.8毫米)(无键帽)

Ultra-thin profile, 0.31 inch(7.8mm) measuring from PCB(no keycap)

●触感的选择:平滑型、触感型

Choice of feel: Linear, Soft tactile

●PCB针脚 PCB pin

●高达2000万次的操作寿命

Long life to 20 Million operation cycles

●最大12V AC/DC 12V AC/DC Maximum

●额定电流: 10mA Current Rating: 10mA

●绝缘电阻 < 100M Ω (在100VDC下)

Insulation Resistance < 100M Ω under 100VDC



■ 用途 Applications:

主要应用于电脑键盘点钞机、工业设备和机器接口设备

Mainly applied on computer keyboards, Cash registers, industrial equipment and Man-Machine interfaces

■ 规格参数 Specification and Parameters:

| 电气特性 Electrical Characteristics | 额定负荷 Rating | 12VDC/AC max. 10mA AC/DC max. |
|---------------------------------------|----------------------------------|---|
| | 接触电阻 Contact Resistance | 200mΩ Max.(25mΩ typical)(初始值 Initial Value) |
| | 绝缘电阻 Insulation Resistence | 100m Ω Min. |
| | 耐电压 Voltage Resistance | AC 100V (50-60Hz) 1 Minute |
| | 电气寿命 Eletrical life | Over 20,000,000 cycles(Load) |
| | 弹跳时间 Bounce Time | 操作速度为400mm/s 5 msec(operation speed at 400mm/sec.) |
| 特性参数 Parameters | 操作力 Operating force | 见具体规格表 See Detailing Spec. |
| | 行程 Pre-travel | 1.2 ± 0.5 mm |
| | 全行程 Total Trave | 2.5 ± 0.4 mm |
| | 机械寿命 Mechanical Life | 2,000万次以上(无负载下) Over 20,000,000 cycles (No Load) |
| | 使用温度 Operating Temperature Range | -40°C ~ +80°C |
| | 使用湿度 Ambient Humidity | ≤85% RH |
| | 可焊性 Solder Ability | 260°C ±5°C 3s±0.5s |
| | 耐焊接热 Soldering Heat Resistance | 260°C ±5°C 3s±1s |
| | 手工焊接 Soldering by Hand | 焊接时,使用30瓦烙铁,控制在350℃约3秒 Use a 30 watts soldering iron for about 3s at 350℃ while soldering |
| | | |

■ 焊接参数 Solding Parameters:

1. 熔融条件 Flux Station

A.GR8干熔型 Flux - Dry type GR8 B.需发泡 Applied by foaming C.特别比重-0.820g/cm3 Specific Gravty-0.820g/cm3

2. 输送速度 Conveyor Speed A.2.3米/分钟 2.3 meters/min

3. 预热温度 Pre-heat Temperature

A.PCB 表面温度为+85℃ Temperature of PCB surface:+85℃

4.焊接 Solder

A.63/37合金 63/37 alloy

B. 干波, 无油 Dry wave - no oil

C.大约接触波段2秒 Approximate contact with wave for 2 seconds

5. 清洗 Cleaning

A.GR8干熔型,不吸湿,不需要清洁 Flux-Dry GR8 is non-hygroscopic flux and does not require cleaning

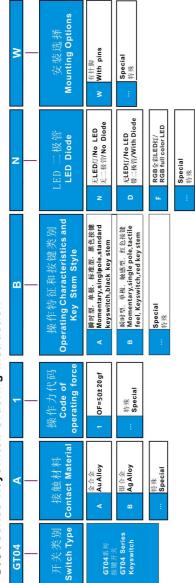
B.建议冷却后在单独的局域用 Alpua 564手洗,注意溶剂不要流入组件中。

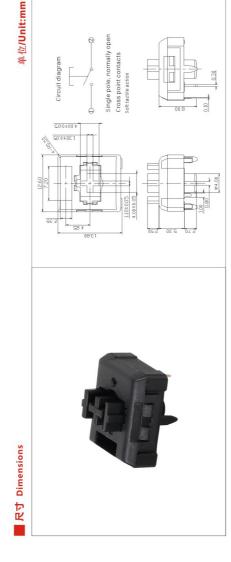
Cleaning is suggested on isolated areas cold cleaning by hand with Alpua 564 is recommended, Care must be taken to avoid solvent entering the keymodule.

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GT04系列按键开关订货指引

GT04 Series Keyswitch Ordering Instruction



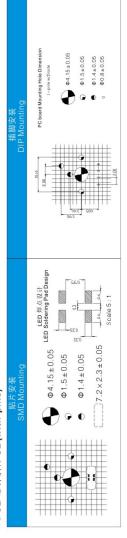


■ 安装方法 Mounting Options



■ 电路板孔设计 Circuit Board Layouts

◆PCB 带针脚/PCB(with pins)



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