

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	200m Ω Max.(25m Ω typical)(初始值 Initial Value)
	绝缘电阻 Insulation Resistance	100m Ω Min.
	耐电压 Voltage Resistance	AC 100V (50–60Hz) 1 Minute
	电气寿命 Elctrical 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 ± 0.5mm
	全行程 Total Trave	2.5 ± 0.4mm
	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℃ ~ +80℃
	使用湿度 Ambient Humidity	≤85% RH
	可焊性 Solder Ability	260℃ ± 5℃ 3s ± 0.5s
	耐焊接热 Soldering Heat Resistance	260℃ ± 5℃ 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 Soldering 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.

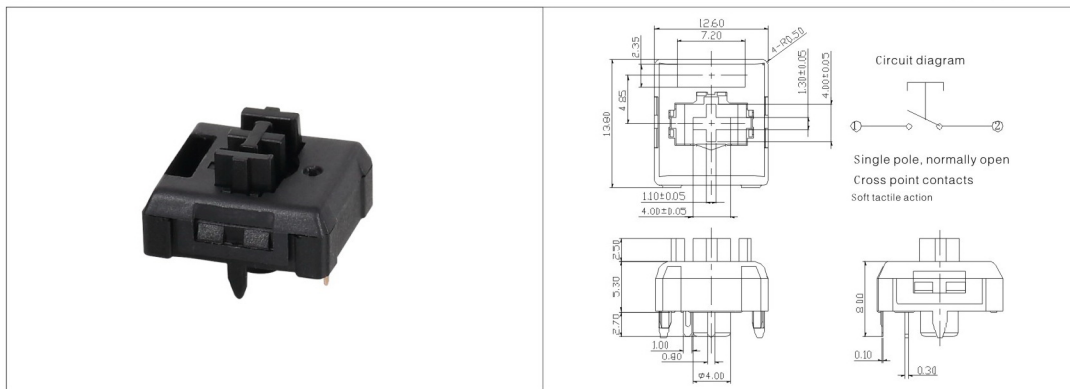
GT04系列按键开关订货指引

GT04 Series Keyswitch Ordering Instruction

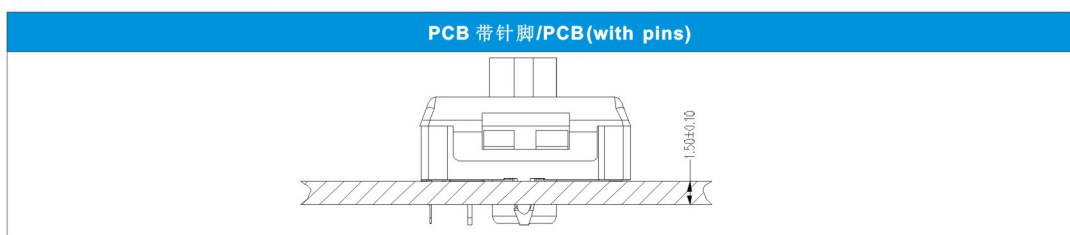
GT04	A	1	B	N	W
开关类别 Switch Type	接触材料 Contact Material	操作力代码 Code of operating force	操作特征和按键类别 Operating Characteristics and Key Stem Style	LED 二极管 LED Diode	安装选择 Mounting Options
GT04系列 按键开关 GT04 Series Keyswitch	A 金合金 Au Alloy	1 OF=50±20 gf	A 瞬时型, 单板, 标准型, 黑色按键 Momentary, single pole, standard keyswitch, black key stem	N 无LED灯/No LED 无二极管/No Diode	W 有针脚 With pins
	B 银合金 Ag Alloy	... 特殊 Special	B 瞬时型, 单板, 触感型, 红色按键 Momentary, single pole, tactile feel, Keyswitch, red key stem	D 无LED灯/No LED 带二极管/With Diode	... Special 特殊
	... 特殊 Special		... Special 特殊	F RGB全彩LED灯/ RGB full color LED	
				... Special 特殊	

■ 尺寸 Dimensions

单位/Unit:mm



■ 安装方法 Mounting Options



■ 电路板孔设计 Circuit Board Layouts

◆PCB 帶針腳/PCB(with pins)

