

特性 Features

- 小体积, 10A负载开闭能力 Small size, 10A switching capability
- 耐冲击电压10kV Impulse withstand voltage 10kV
- 高灵敏度, 仅200mW线圈功耗 High sensitivity, only 200mW coil power consumption
- 宽度7mm, 适合高密度安装 Width 7mm, suitable for high-density installation
- 支持保持电压, PWM控制, 有助于节能 Support hold voltage, PWM control, help to save energy
- UL绝缘系统:F级 UL insulation system: Class F
- 环保产品(符合RoHS标准) Environmental friendly product (RoHS compliant)



典型应用 Application

- 控制设备的输出用途/热水器/冰箱/空调/小家电等其他家用电器 Output use of control equipment/water heater/refrigerator/air conditioner/small household appliances etc.

触点参数 Contact Data

触点形式 Contact Arrangement	1组常开 1 Form A
触点额定 Contact Rating	NO: 5A 250VAC 3A 30VDC NO: 7A 250VAC 5A 30VDC NO: 10A 250VAC 5A 30VDC
最大切换电压 Max. Switching Voltage	277VAC/30VDC
最大切换电流 Max. Switching Current	10A
触点材质 Contact Material	银合金 Ag alloy
接触电阻 Contact Resistance	Max.100mΩ (1A 5VDC)
动作/释放时间 Operate Time/ Release Time	≤10ms/≤10ms
最小切换负载 Min. switching load	10mA 24V
电耐久性 Electrical Endurance	5A 250VAC, on : off = 1s : 9s, 85°C, 阻性负载 R=Load 10*10 ⁴ ops. 7A 250VAC, on : off = 1s : 9s, 85°C, 阻性负载 R=Load 5*10 ⁴ ops. 10A 250VAC, on : off = 1s : 9s, 85°C, 阻性负载 R=Load 1*10 ⁴ ops.
机械耐久性 Mechanical Endurance	5*10 ⁶ ops.
最大切换功率 Max. Switching Power	2770VA

线圈参数 Coil Data

线圈电压范围 Coil Voltage Range	3~24 VDC
容许最大电压 Max. Continuous	额定电压的160% 160% of Rated Voltage
线圈绝缘等级 Coil Insulation System	Class F
额定线圈功率 Coil Rating Power	200mW 32mW(40% 保持电压 Holding voltage) 50mW(50% 保持电压 Holding voltage)

注:

- a) 所有数值均为在环境温度+23°C下未预通电的线圈 All the performance data are for coils that are not pre energized at 23°C ambient temperature.

性能参数 Characteristics

绝缘电阻 Insulation Resistance		1000MΩ Min (at 500VDC)
介质耐压 Dielectric Strength	断开触点间 Between Open Contacts	750Vrms 1min
	线圈与触点间 Between Coil and Contact	4000Vrms 1min
温度范围 Temperature Range		-40~+85°C
湿度 Ambient Operating Humidity		5%~85%RH
振动 Vibration Resistance		10Hz-55Hz, at double amplitude 1mm 频率 10Hz-55Hz, 双振幅 1mm
冲击 Shock	稳定性 Functional	10G
	强度 Destructive	100G
重量 Weight		Approx.3g

线圈规格 Coil Voltage Specifications

额定电压 Nominal Coil VDC	动作电压 Must Operate VDC	释放电压 Release Coil VDC	线圈电阻(10A) Coil Resistance Ω(±10%)
3	2.25	0.15	45
5	3.75	0.25	125
6	4.50	0.30	180
9	6.75	0.45	405
12	9.00	0.60	720
18	13.5	0.90	1620
24	18.0	1.20	2880

注:

- a) 以上值为初始值 All the performance data are initial values.
b) 线圈电阻是在线圈温度23°C, 公差为±10% Coil resistance is tested at 23°C ambient temperature, ±10% tolerance.

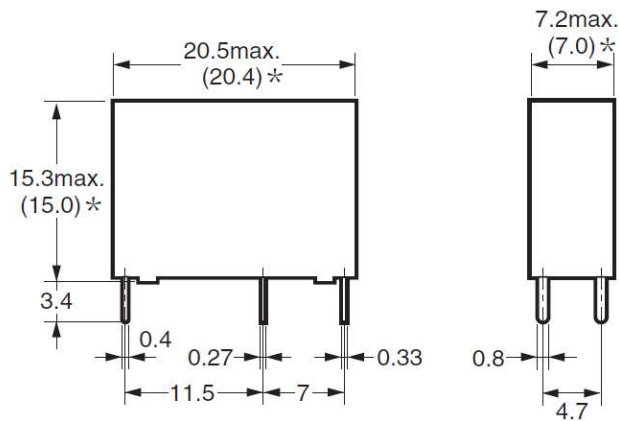
G7J 小型功率继电器 Miniature Power Relay

■ 型号命名标准 Model Number Legend

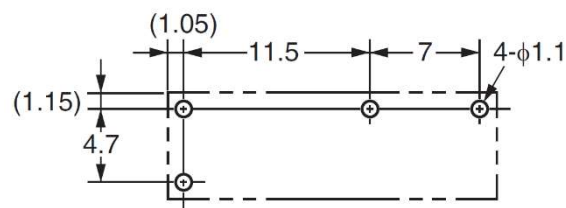
	G7J	-12	L	M	V	1	F	-E	,XXX
基本型号 Basic Type:	G7J								
线圈电压 Coil Voltage:	3, 5, 6, 9, 12, 18, 24VDC								
线圈功耗 Coil Power:	L:200mW;								
触点结构 Contact Arrangement:	M: 1组常开 1 Form A								
防护构造 Protective Construction:	V: 耐助焊剂型 Flux Tight; S: 塑料密封型 Sealed								
触点材料 Contact Material:	Blank: AgSnO ₂ ; 1: AgNi								
绝缘等级 Insulation Class:	F: F级 Class F								
负载电流 Load Current:	Blank: 5A; E:7A; E1: 10A								
特殊特性 Special Characteristic:	Blank:标准型Standard; P:支持PWM波 PWM Supported; XXX: 客户特殊特性号 Customer Special Feature Number								

■ 外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

◆ 外形尺寸 Outline Dimensions



◆ 印刷线路板加工尺寸 PCB Outline Dimension Bottom View



G7J 小型功率继电器 Miniature Power Relay

◆ 接线图 Wiring Diagram Bottom View



注 Note:

未注尺寸公差 Unspecified tolerance : <1mm: ± 0.2 mm, 1~5 mm: ± 0.3 mm, >5mm: ± 0.5 mm ;

安装孔尺寸中未注尺寸公差为 ± 0.1 mm PC board layout dimensions hadn't specified tolerance is ± 0.1 mm.

免责声明:

本说明书仅供参考。

有关更多信息，请参阅“术语和指南”。规格如有更改，恕不另行通知。我们无法评估每个可能应用的所有性能和所有参数。因此，用户应该在一个正确的位置选择适合自己的产品。如有任何疑问或者需要技术服务，请联系STEIPU。

Disclaimer:

This manual is for reference only . For more information, see Terms and Guidelines. Specifications are subject to change without notice. We cannot evaluate all performance and all parameters for every possible application. Therefore, users should choose the right product for them in the right place. If you have any questions or need technical services, please contact STEIPU.