

特性 Features

- 3A~16A负载等级可选 3A to 16A Load Class Optional
- 线圈触点间耐压4000V Voltage between coil contacts 4000V
- 高灵敏度，仅200mW线圈功耗可选 High sensitivity, only 200mW coil power available
- 可提供满足IEC 62368-1/IEC 60730-1标准产品 Products that meet IEC 62368-1/IEC 60730-1 standards are available
- 爬电距离11mm,满足加强绝缘要求 The creepage distance is 11mm, which meets the requirements for enhanced insulation
- 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/家用电器/智能家居用品(智能插座、开关)/照明系统控制等 Output use of control equipment/household appliances/smart household items (smart sockets, switches)/ lighting system control, 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	10A 125VAC 3A/5A/8A/10A 250VAC 3A/5A/8A/10A 30VDC 10A/16A 277VAC TV-5
最大切换电压 Max. Switching Voltage	277VAC/30VDC
最大切换电流 Max. Switching Current	16A
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(450mW) ≤15ms(200mW) /≤4ms
电耐久性 Electrical Endurance	3A/5A/10A 250VAC/30VDC 10*10 ⁴ ops. 10A 277VAC 5*10 ⁴ ops. 16A 277VAC 3*10 ⁴ ops. TV-5 2.5*10 ⁴ ops.
机械耐久性 Mechanical Endurance	10*10 ⁶ ops.
最大切换功率 Max. Switching Power	4432VA

线圈参数 Coil Data(标准型 Standard)

线圈电压范围 Coil Voltage Range	3~48VDC
容许最大电压 Max. Continuous	额定电压的130% 130% of Rated Voltage
线圈绝缘等级 Coil Insulation System	Class A 或 or Class F
额定线圈功率 Coil Rating Power	450mW

线圈参数 Coil Data(灵敏型 Sensitivity)

线圈电压范围 Coil Voltage Range	3~48VDC
容许最大电压 Max. Continuous	额定电压的130% 130% of Rated Voltage
线圈绝缘等级 Coil Insulation System	Class A 或 or Class F
额定线圈功率 Coil Rating Power	200mW

注:

- a) 所有数值均为在环境温度+23℃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℃ 105: -40~+105℃
湿度 Ambient Operating Humidity		20% ~ 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.6g

线圈规格 Coil Voltage Specifications(标准型 Standard)

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 Coil Resistance Ω(±10%)
3	2.25	0.15	20
5	3.75	0.25	56
6	4.50	0.30	80
9	6.75	0.45	180
12	9.00	0.60	320
24	18.0	1.20	1280
48	36.0	2.40	5120

线圈规格 Coil Voltage Specifications(灵敏型 Sensitivity)

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 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
24	18.0	1.20	2880
48	36.0	2.40	11538

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℃，公差为±10% Coil resistance is tested at 23°C ambient temperature, ±10% tolerance.

G2F 小型功率继电器 Miniature Power Relay

型号命名标准 Model Number Legend

	G2F	-12	L	M	V	2	H	-E	,XXX
基本型号 Basic Type:									
G2F									
线圈电压 Coil voltage:									
03, 05, 06, 09, 12, 24, 48VDC									
线圈功耗、负载电流 Coil Power , Load Current:									
200mW : L -- 3A ; LH -- 8A ; LH(-E) – 10A									
450mW : D -- 5A ; H -- 10A ; H(-E) –16A									
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:AgNi; 1: Ag ₂ CdO ₂ ; 2: AgSnO ₂ In ₂ O ₃									
绝缘等级 Insulation Class:									
Blank: CLASS A (105°C); H / F: CLASS F (155°C)									
触点负载 Contact Rating:									
Blank: 标准型 Standard; E: 16A; 5: TV-5; E5: 16A&TV-5									
特殊特性 Special Characteristic:									
,105: 105°C*; Blank:标准型Standard; ,XXX: 客户特殊特性号 Customer Special Feature Number									

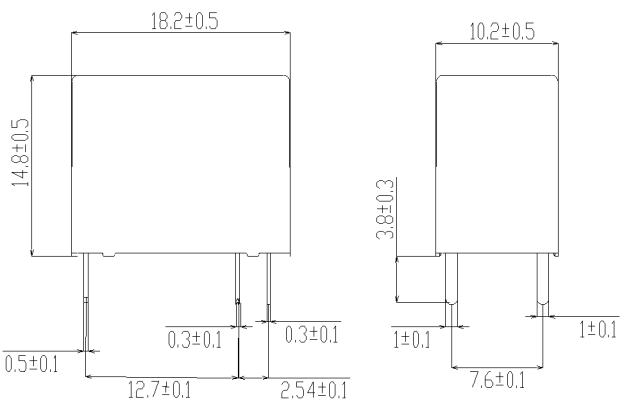
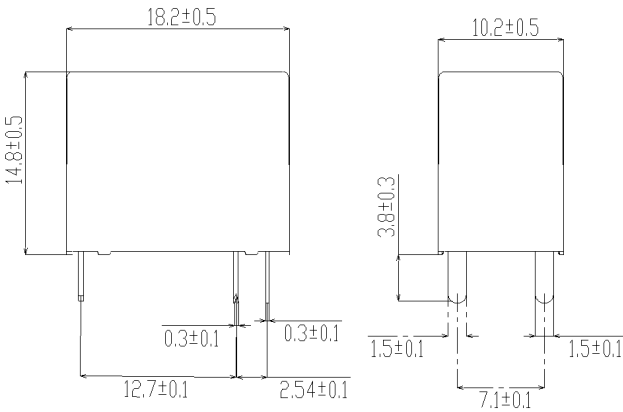
*有关105°C产品详情，请与我司联系。For 105 °C product's detail, please contact STEIPU.

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

外形尺寸 Outline Dimensions

16A

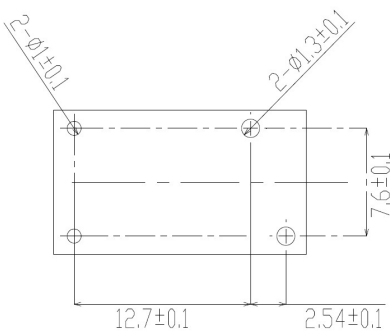
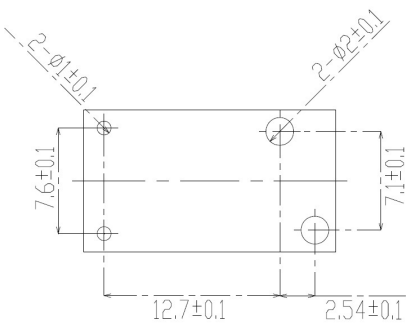
3-10A



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

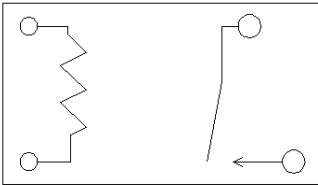
16A

3-10A



G2F 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.

■ 国家标准规格认证 Approved Standards

安规种类 Certification	UL/C-UL	TUV	CQC
认证号 File No.	E322305	R50175987	CQC17002185302

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