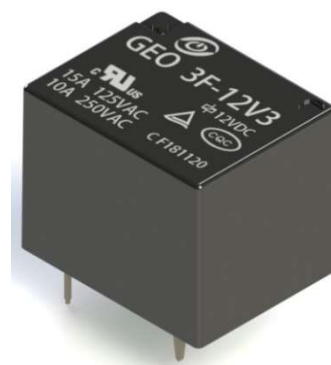


特性 Features

- 经济型方糖继电器 Economical sugar cube relay
- 16A 可选 16A Available
- TV-5 负载可选 TV-5 Load Available
- 具有一组常开、一组转换触点形式 1Form A, 1Form C available
- 超小型、标准印制板引出 Ultra-small, standard PCB Layout
- 环保产品(符合RoHS标准) Environmental friendly product (RoHS compliant)



典型应用 Application

- 家用电器/小家电/UPS电源/智能家居用品(智能插座、开关)/照明系统控制 Household appliances/small appliances /UPS power supply/Smart household goods (smart socket, switch)/ lighting system control, etc.

触点参数 Contact Data

触点形式 Contact Arrangement	1A , 1C
触点额定 Contact Rating	15A 125VAC 10A 250VAC 6A/10A 28VDC
最大切换电压 Max. Switching Voltage	277VAC/30VDC
最大切换电流 Max. Switching Current	15A
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/≤5ms
电耐久性 Electrical Endurance	1A: 1 X 10 ⁵ ops (10A 250VAC, on : off= 1.5s: 1.5S) 1 X 10 ⁴ ops (15A 125VAC, on : off= 1s: 9S) 1C: NO: 1 X 10 ⁵ ops (10A 250VAC, on : off= 1.5s: 1.5S) NC: 1 X 10 ⁵ ops (6A 250VAC , on : off= 1.5s: 1.5S) NO/NC: 5 X 10 ⁴ ops (5A 250VAC, on : off= 1.5s: 1.5S) 1B: 1 X 10 ⁵ ops (10A 250VAC , on : off= 1s: 9S)
机械耐久性 Mechanical Endurance	10*10 ⁶ ops.
最大切换功率 Max. Switching Power	2500VA

线圈参数 Coil Data

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 Class F
额定线圈功率 Coil Rating Power	360mW

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℃ 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	1500Vrms 1min
温度范围 Temperature Range		-40~+85℃
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

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	25
5	3.75	0.25	69
9	6.75	0.45	225
12	9.00	0.60	400
18	13.5	0.90	900
24	18.0	1.20	1600
48	36.0	2.40	6400

注:

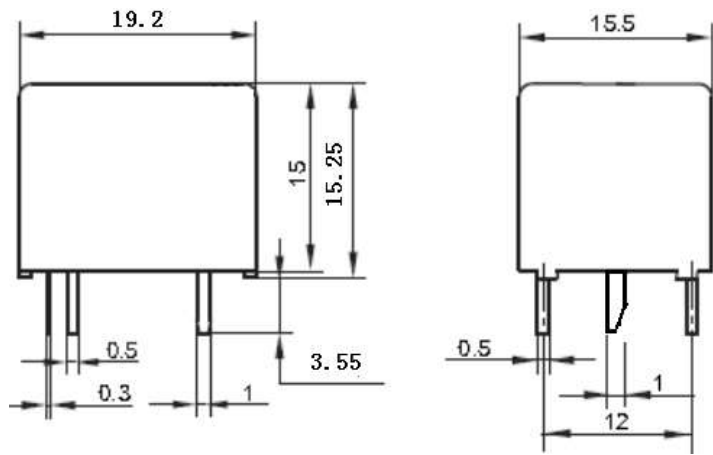
- a) 以上值为初始值 All the performance data are initial values.
- b) 线圈电阻是在线圈温度23℃, 公差为±10% Coil resistance is tested at 23℃ ambient temperature, ±10% tolerance.

■ 型号命名标准 Model Number Legend

	GEO 3F	-12	M	V	2	F	,XXX
基本型号 Basic Type:							
GEO 3F							
线圈电压 Coil voltage:							
03, 05, 09, 12, 18, 24, 48VDC							
触点结构 Contact Arrangement:							
Blank: 1组转换 1 Form C; M: 1组常开 1 Form A; B: 1组常闭 1 Form B							
防护构造 Protective Construction:							
Blank:耐助焊剂型 Flux Tight; S:塑料密封型 Sealed							
触点材料 Contact Material:							
1: AgNi; 2:Ag ₂ CdO ₂ ; 3: AgSnO ₂							
绝缘等级 Insulation Class:							
Blank: CLASS A (105°C); H/F: CLASS F (155°C)							
特殊特性 Special Characteristic:							
Blank:标准型Standard; XXX: 客户特殊特性号 Customer Special Feature Number							

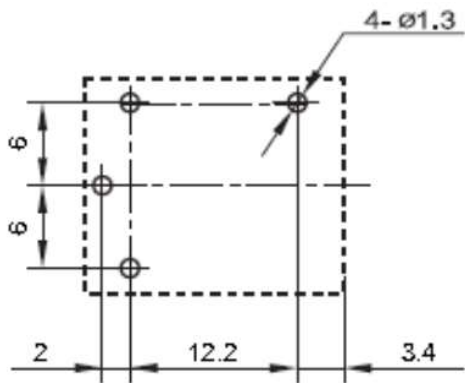
■ 外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

◆ 外形尺寸 Outline Dimensions

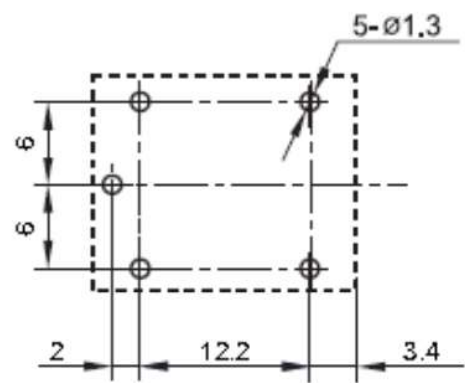


◆ 印刷线路板加工尺寸 PCB Outline Dimension Bottom View

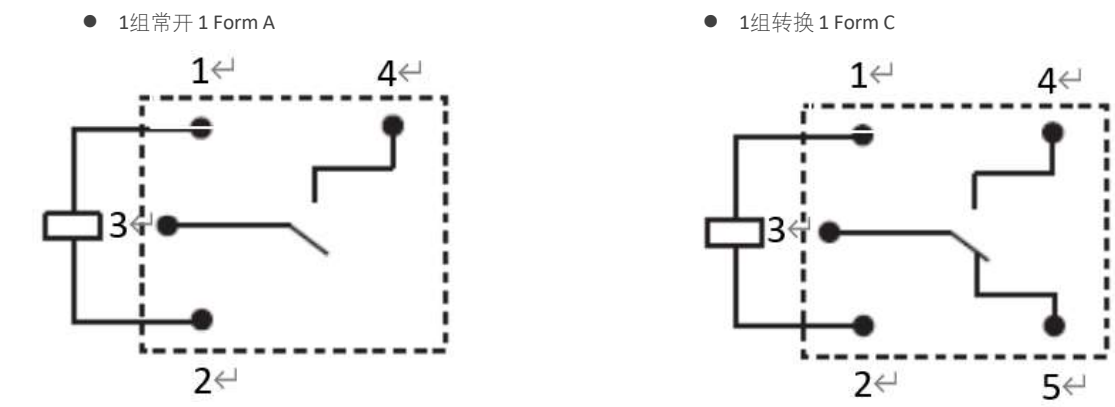
● 1组常开 1 Form A



● 1组转换 1 Form C



◆ 接线图 Wiring Diagram Bottom View



1、2：线圈端子， 3：转换端子(C)， 4：NO端子(A)（一组常闭此引脚省略）， 5：NC端子(B)
1, 2: coil terminal / 3: conversion terminal (C) / 4: NO terminal (A) (this pin is omitted for 1Form B) /5: NC terminal (B)

注 Note:
未注尺寸公差 Unspecified tolerance : <1mm: ±0.2 mm, 1~5 mm: ±0.3mm, >5mm: ±0.5mm ;
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 ±0.1mm.

■ 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	R50176024	CQC17002185303

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