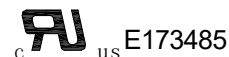
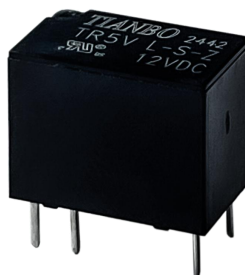


SIGNAL RELAY 信号继电器	TR5V
---------------------------	-------------

- Surge Strength 1500V FCC68
浪涌强度 1500V,符合 FCC68
- Low coil power requirement for IC compatibility
符合 IC 的低功耗线圈要求
- Designed for compact,high density mounting
适合紧凑型、高密度安装
- Conform to RoHS,ELV directive
符合 ROHS,ELV 指令



■ CONTACT DATA 触点参数

Contact Arrangement 触点形式	1Z	
Contact Material 触点材料	Silver Alloy 银合金	
Load 负载	Resistive load 阻性负载 (cosΦ=1)	
Contact Ratings 触点负载	1A 120VAC 1A 24VDC	2A 120VAC 2A 24VDC
Min. Contact Load 最小负载	1mA 5VDC	
Max. Switching Voltage 最大切换电压	120VAC/60VDC	
Max. Switching Current 最大切换电流	1A	2A
Max. Switching Power 最大切换功率	1200VA/30W	240VAC/48W
Contact Resistance 接触电阻	≤100mΩ (6VDC 1A)	
Electrical Endurance 电耐久性	1×10 ⁵ OPS(at 30 OPS/min) 1×10 ⁵ 次(30次/分钟)	
Mechanical Endurance 机械耐久性	1×10 ⁷ OPS(at 300 OPS/min) 1×10 ⁷ 次(300次/分钟)	

■ CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻	100MΩ Min. at 500VDC	
Dielectric Strength 介质耐压	Between Open Contacts 触点间	400VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间	1000VAC (50/60Hz 1 min)
Operate Time 动作时间	≤4ms	
Release Time 释放时间	≤3ms	
Ambient Temperature 环境温度	-40℃to+85℃	
Shock Resistance 冲击	Functional 稳定性:	10G
	Destructive 强度:	100G
Vibration Resistance 振动	10~55Hz, 1.5mm DA 双振幅	
Humidity 湿度	5~85%	
Unit Weight 重量	Approx. 2.2g 约2.2克	

■ COIL DATA 线圈参数 (at 23°C)

Rated Voltage 额定电压 (VDC)	3	5	6	9	12	24	0.15W
Coil Resistance 线圈电阻 ($\Omega \pm 10\%$)	60	167	240	540	960	3840	
Rated Current 额定电流 (mA)	50	29.9	25	16.7	12.5	6.3	
Max. Operate Voltage 最大动作电压 (VDC)	2.4	4	4.8	7.2	9.6	19.2	
Min. Release Voltage 最小释放电压 (VDC)	0.3	0.5	0.6	0.9	1.2	2.4	
Coil Resistance 线圈电阻 ($\Omega \pm 10\%$)	45	125	180	405	720	2880	0.2W
Rated Current 额定电流 (mA)	66.7	40	33.3	22.2	16.7	8.3	
Max. Operate Voltage 最大动作电压 (VDC)	2.25	3.75	4.5	6.75	9	18	
Min. Release Voltage 最小释放电压 (VDC)	0.3	0.5	0.6	0.9	1.2	2.4	
Coil Resistance 线圈电阻 ($\Omega \pm 10\%$)	25	70	100	220	400	1600	0.36W
Rated Current 额定电流 (mA)	120	72	60	40	30	15	
Max. Operate Voltage 最大动作电压 (VDC)	2.25	3.75	4.5	6.75	9	18	
Min. Release Voltage 最小释放电压 (VDC)	0.3	0.5	0.6	0.9	1.2	2.4	
Max. Voltage 最大电压	3.9	6.5	7.8	11.7	15.6	31.2	

Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

备注：最大电压是指继电器线圈在短时间内能够承受的最大电压值。

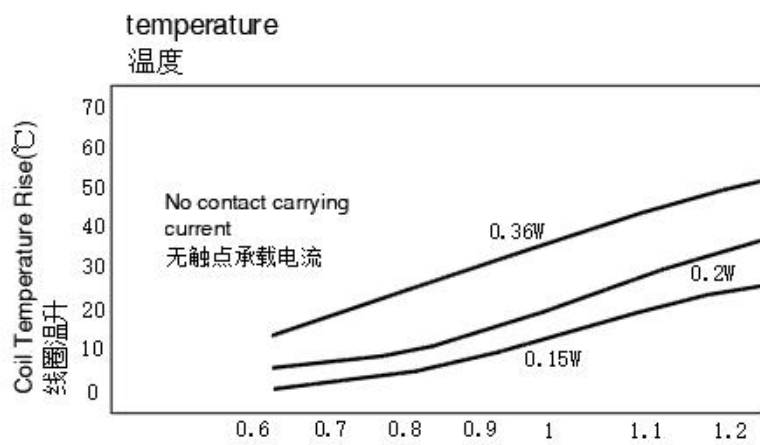
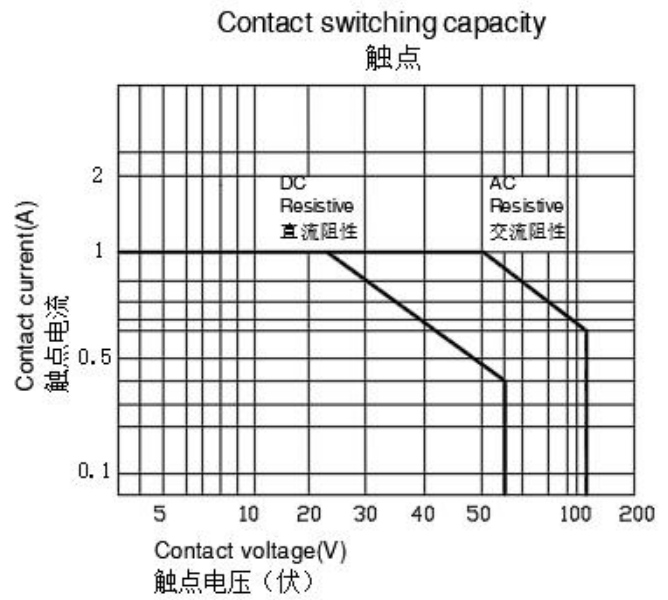
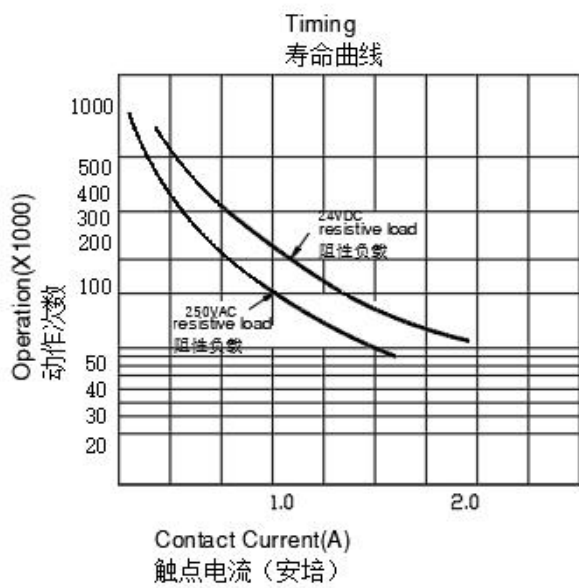
■ SAFETY APPROVED RATINGS 安全认证

Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TR5V	3 to 24VDC	UL/cUL	1A/2A 120VAC 1A/2A 24VDC 0.5 A 125VAC 1A 30VDC

■ ORDERING INFORMATION 订货标记示例

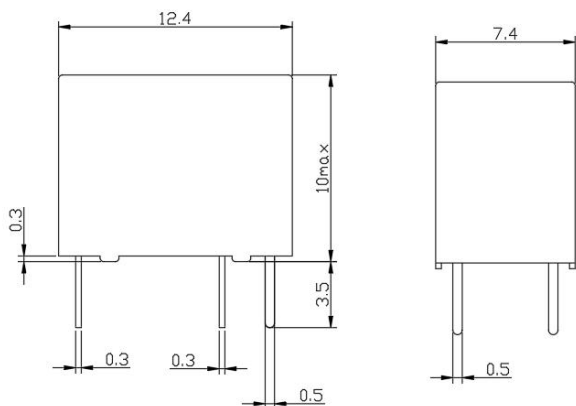
Type 型号	TR5V	D	-S	-Z	/12VDC
Coil Power 线圈功率	D:0.36W L:0.2W M:0.15W				
Construction 封装方式	Plastic sealed 塑封型				
Contact Arrangement 触点形式	Z: 1 Form C Z: 一组转换				
Coil Voltage 线圈电压	03, 05, 06, 09, 12, 24,VDC				

■ CHARACTERISTIC CURVES 性能曲线图

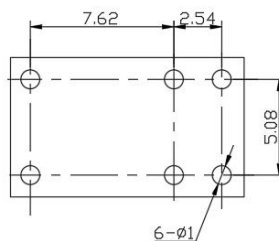


■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT 外形图、接线图、安装孔尺寸

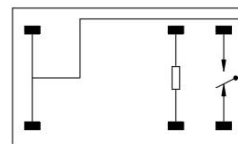
OUTLINE DIMENSIONS
外形尺寸



PC BOARD LAYOUT
安装孔尺寸



WIRING DIAGRAM
接线图



备注:

- 1) 产品外形图的标注尺寸为沾锡前尺寸（沾锡后会变大），安装孔尺寸为推荐的 PCB 板孔的设计尺寸，具体 PCB 板孔设计尺寸可根据产品实物进行测绘、调整；
- 2) 产品部分外形尺寸中未注尺寸公差：当外形尺寸 $\leq 1\text{mm}$ 时，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。
- 3) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

Remark:

- 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) The additional tin top is max. 1mm.
- 3) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

声明:

本产品规格书仅供客户使用时参考，如有更改，恕不另行通知。

Disclaimer:

The specification is for reference only. Specification subject to change without notice.