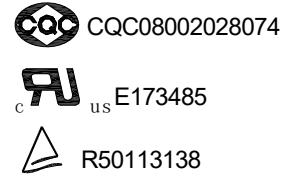
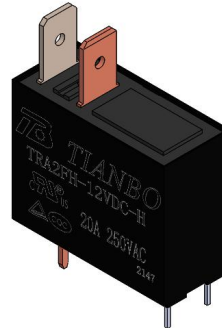


PCB 继电器

TRA2FH

- 20A switching capabilities
20A 触点切换能力
- 5KV dielectric strength between coil to contacts
5KV 线圈与触点间介质耐压
- 10KV surge voltage between coil to contacts
线圈与触点间 10KV
- Meet requirements of 8mm creepage distance
满足 8mm 爬电距离
- Conform to RoHS,ELV directive
符合 RoHS 和 ELV 指令



CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H
Contact Material 触点材料	Silver Alloy 银合金
Load 负载	Resistive load 阻性负载 ($\cos \Phi = 1$)
Min. Contact Load 最小负载	20A 250VAC
Max. Switching Voltage 最大切换电压	1A 6VDC
Max. Switching Current 最大切换电流	277VAC/30VDC
Max. Switching Power 最大切换功率	20A
Contact Resistance 接触电阻	100m Ω Max. at 6VDC 1A
Electrical Endurance 电耐久性	1 $\times 10^5$ OPS(at 6 OPS/min)
Mechanical Endurance 机械耐久性	1 $\times 10^7$ OPS(at 300 OPS/min)

CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻		1000M Ω Min. at 500VDC
Dielectric Strength 介质耐压	Between Open Contacts 触点间	1000VAC(50/60Hz for 1 min)
	Between Contacts and Coil 触点与线圈间	5000VAC(50/60Hz for 1 min)
Operate Time 动作时间		10ms Max
Release Time 释放时间		5ms Max
Ambient Temperature 环境温度		-40℃to+105℃ (no freezing)
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
Max. Switching Frequency 最大切换频率		Mechanical: 18,000 OPS/h Electrical: 360 OPS/h
Humidity 湿度		40-85%
Unit Weight 重量		Approx 15g 约15g
Safety Approval 安全认证		UL cUL TÜV CQC

■ COIL DATA 线圈参数 (at 20°C)

Rated Voltage 额定电压 (VDC)	5	6	9	12	18	24	48	0.54W
Coil Resistance 线圈电阻 ($\Omega \pm 10\%$)	46	67	150	270	620	1050	4250	
Rated Current 额定电流 (mA)	108	90	60	45	29	22.5	11.3	
Max. Operate Voltage 最大动作电压 (VDC)	4	4.8	7.2	9.6	14.4	19.2	38.4	
Min. Release Voltage 最小释放电压 (VDC)	0.5	0.6	0.9	1.2	1.8	2.4	4.8	
Max. Voltage 最大电压	6.5	7.8	11.7	15.6	23.4	31.2	62.4	

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。

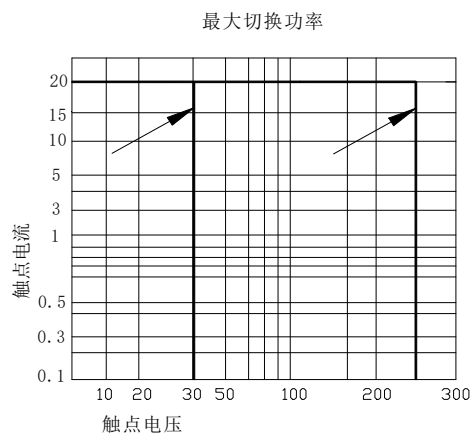
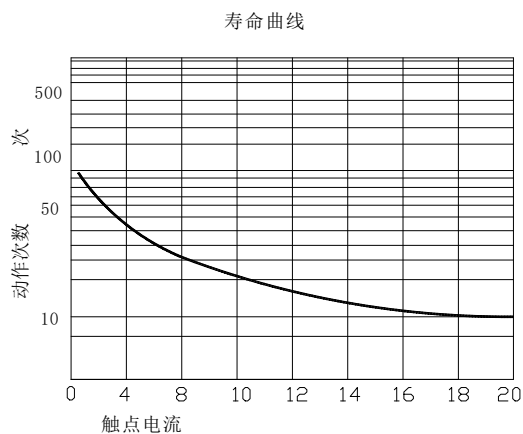
■ SAFETY APPROVED RATINGS 安全认证

Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRA2FH	5 to 48VDC	TÜV	Making: 80A;300ms;cos phi=0.7 Breaking:20A;cosphi=0.9 125/250/277VAC 20A 125/250/277VAC
		UL/cUL	20A 250/277VAC 20A 30VDC 2HP 240/250/277VAC 12FLA/72LRA 250/277VAC
		CQC	20A/25A 125VAC/250VAC 20A/25A 30VDC

■ORDERING INFORMATION 订货标记示例

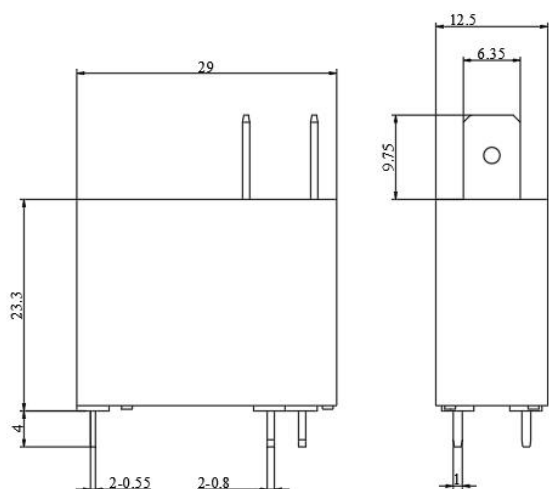
		TRA2F	-12VDC	-S	-H	(P)	H	XX
Type								
型号	TRA2FH: 继电器型号							
Coil Voltage								
线圈电压	05, 06, 09, 12, 18, 24, 48VDC							
Construction								
封装方式	Plastic sealed or flux proofed 塑封型或防焊剂型							
Contact Arrangement								
触点形式	H: 1 Form A H: 一组常开							
Lead-out Method								
引出端方式	H: 1 Form A H: 一组常开							
Contact Load								
触点负载	H: 高负载							
Special Code								
特性号	XX: Customer Special Requirement IT: Compliant with IEC 60335-1 (GWT) Nil: Standard Type Ex nC IIC Gc: Explosion-Proof XX: 客户特殊要求 IT: 满足 IEC 60335-1 (GWT) 无: 标准型 Ex nC IIC Gc: 防爆							

■CHARACTERISTIC CURVES 性能曲线图

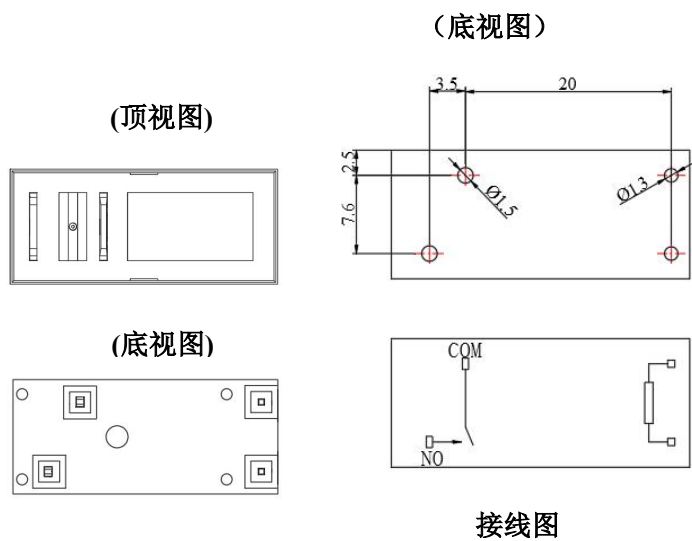


■OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT 外形图、接线图、安装孔尺寸
TRA2FH 标准型

外形图

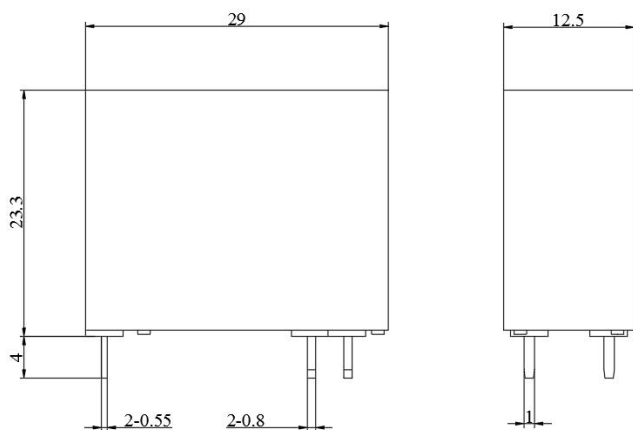


安装孔尺寸

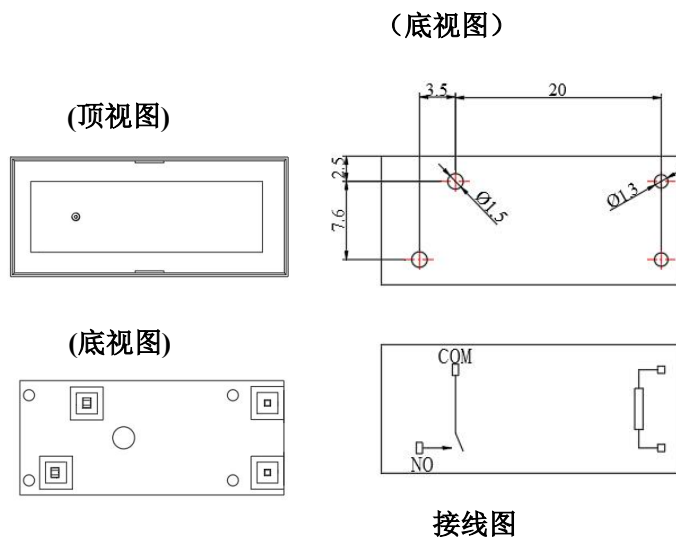


TRA2FH PCB 型

外形图



安装孔尺寸



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.
