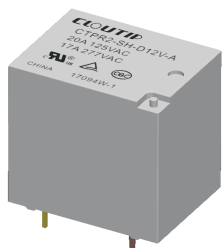


# RELAY




## 超小型大功率电磁继电器 / Subminiature High- Power Relay



**CTPR2系列**  
**CTPR2 SERIES**

- **特性 Features**
  - 外形尺寸 : (21.0x16.0x20.6mm)  
OUT Dimension: (21.0x16.0x20.6mm)
  - 触点切换能力达 20A  
Contact Ability to switch up to 20A
  - 触点与线圈间抗浪涌电压 6KV  
Surge resistance between contacts and coils 6KV
  - 环境温度可达 105 °C  
Ambient Temperature accessible 105 °C
- 具有 TV-8 125VAC 负载能力  
Load capacity with TV-8 125VAC
- 具有一组常开、一组转换触点形式  
With (1A 、 1C) Contact Form
- 塑封型和防焊剂型可供选择  
Sealed model and Flux model are available

● 环保产品 (符合 ROHS)  
Environmentally friendly products (in line with ROHS)

触点参数 / CONTACT DATA		
触点形式 Contact Form	1A	1C
接触电阻 Contact Resistance	100mΩ Max (24VDC 1A)	
触点材料 Contact Material	银合金 Ag Alloy	
触点负载 (阻性) Contact Rating (Resistive)	20A 125VAC 17A 277VAC 7A 400VAC	16A 250VAC NO: 7A 400VAC
最大切换电压 Max. Switching Voltage	400VAC	400VAC(NO)
最大切换电流 Max. Switching Current	20A	17A
最大切换功率 Max. Switching Power	4700VA	4700VA
机械寿命 Mechanical	1 × 10 <sup>7</sup> 次	
电气寿命 Electrical Life	1 × 10 <sup>5</sup> 次	5 × 10 <sup>4</sup> 次

线圈参数 / COIL DATA	
额定线圈功率 (W) Rated Coil Power (W)	约360mW about 360mW

线圈规格 / COIL DATA				
额定电压 Rated Voltage (VDC)	线圈电阻 Coil Resistance (Ω ± 10%)	吸合电压 Operate Voltage ≤ (VDC)	释放电压 Release Voltage ≥ (VDC)	最大电压 Maximum voltage (VDC)
3	25	2.25	0.3	3.9
5	70	3.75	0.5	6.5
6	100	4.50	0.6	7.8
9	225	6.75	0.9	11.7
12	400	9.00	1.2	15.6
18	900	13.5	1.8	23.4
24	1600	18.0	2.4	31.2
48	6400	36.0	4.8	62.4

性能参数 / GENERAL DATA		
绝缘电阻 Insulation Resistance	1000MΩ.500VDC	
介质耐压 Dielectric Strength	断开触点间 Between Open contacts	1000VAC 1min
	线圈与触点间 Between Coil and contacts	2500VAC 1min
浪涌电压 (线圈与触点间) Surge voltage (Between Coil and contacts)	6kV(1.2/50μs)	
动作时间 (额定电压下) Operate time (Under rated voltage)	≤10ms	
释放时间 (额定电压下) Release time (Under rated voltage)	≤5ms	
冲击 Shock Resistance	强度 Endurance	980m/S <sup>2</sup>
	稳定性 Misoperation	98m/S <sup>2</sup>
振动 Vibration Resistance	10~55HZ, 1.5mm 双振幅 10~55HZ, 1.5mm double amplitude	
湿度 Humidity	5%~85%RH	
温度范围 Temperature range	CTPR2: -40°C~85°C CTPR2-T: -40°C~105°C	
引出端方式 Exit mode	印制板式 Printed type	
重量 Weight	约14g about 14g	
封装方式 Encapsulation mode	塑封型、防焊剂型 Sealed model and Flux model	

安规认证 / SAFETY APPROVAL			
UL/CUL	20A 125VAC TV-8 125VAC NO/NC: 17A/15A 277VAC NO: 1HP 250VAC NC: 1/2HP 277VAC		
TUV	AgSnO2	1A	16A 250VAC
		1C	NO: 16A 250VAC NC: 7A 250VAC
CQC	16A 250VAC		

命名规则/OPDERING INFORMATION

CTPR2 -S -D12V -A -P -Q (xxx)

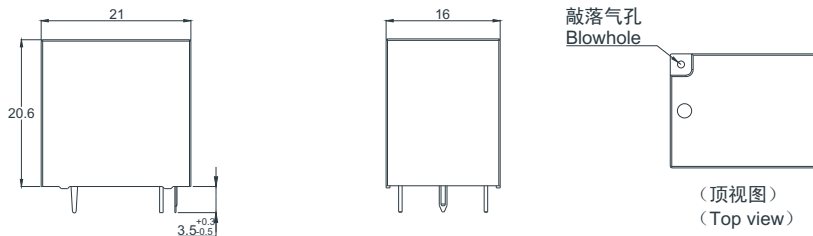
客户特性号 : Customer characteristic No:		
负载类型 : Q: 高负载型 16A 250VAC, 105 °C ( 仅适用于 CTPR2-T) 无: 标准型 Load type: Q: High load type 16A 250VAC, 105 °C (Only applicable to CTPR2-T) Blank: Standard		
引出脚方式 : Customer characteristic No:	P: 双列引出脚 P: Double pins	无 : 单列引出脚 Blank: Single pins
触点转换形式: Contact Forms :	-A: 一组常开 -A: 1 Form A	-C: 一组转换 -C: 1 Form C
额定线圈电压 (VDC) : Rated Coil Voltage (VDC) :	03, 05, 06, 09, 12, 18, 24 03, 05, 06, 09, 12, 18, 24	
封装形式: Packing Forms:	S-塑封型 S-Plastic Sealed Type	SH-防焊剂型 SH-Flux Model
型号CTPR2:85°C, CTPR2-T:105°C ModelCTPR2:85°C, CTPR2-T:105°C		

备注: (1)在含H<sub>2</sub>S、SO<sub>2</sub>、NO<sub>2</sub>等有害气体的环境下, 建议选用塑封型产品, 并在实际使用中进行试验确认, 当不需要整体清洗时, 建议优先选用防焊剂型产品; 当继电器装入PCB板后, 如需进行整体清洗, 请与我司联系确认, 以便提供合适的产品。  
(2)当选用塑封型产品时, 请在清洗后将敲落气孔移除。  
(1)In the environment containing H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub> and other harmful gases, it is recommended to choose plastic-encapsulated products, and please confirm in the actual use of the test, when the overall cleaning is not required, it is recommended to preferentially choose the anti-welding flux products when the relay is loaded into the PCB board, if you want to carry out the overall cleaning, please contact our company for confirmation, so as to provide the right products.  
(2)When plastic Sealed products are selected, remove the holes after cleaning.

外形图, 接线图, 安装孔尺寸(单位:mm) / OUTLINE DIMENSIONS, WIRING DIAGRAM, PCB LAYOUT(UNIT:mm)

单列引出脚  
Single pin

外形图/Outline Dimensions



安装孔尺寸/PCB Layout  
(底视图) / ( Bottom View)



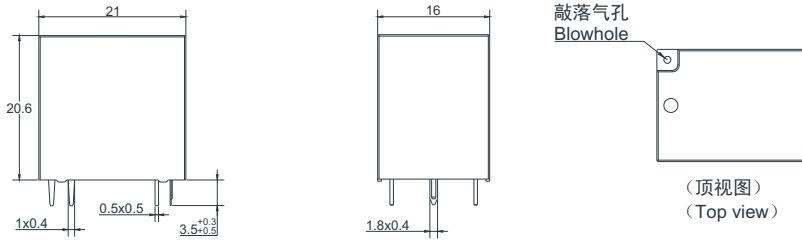
接线图/Wiring Diagram  
(底视图) / ( Bottom View)



外形图, 接线图, 安装孔尺寸(单位:mm) / OUTLINE DIMENSIONS, WIRING DIAGRAM, PCB LAYOUT(UNIT:mm)

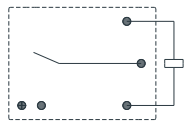
双列引出脚  
Double pin

外形图/Outline Dimensions

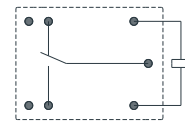


安装孔尺寸/PCB Layout  
(底视图) / (Bottom View)

一组常开  
1 Form A

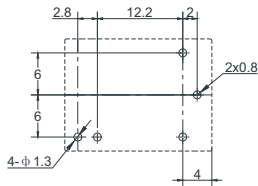


一组转换  
1 Form C

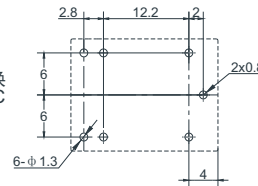


接线图/Wiring Diagram  
(底视图) / (Bottom View)

一组常开  
1 Form A



一组转换  
1 Form C



备注: (1)产品部分外形尺寸未注尺寸公差, 当外形尺寸≤1mm, 公差为±0.2mm; 当外形尺寸在(1~5)mm之间时, 公差为±0.3mm; 当外形尺寸>5mm, 公差为±0.4mm;

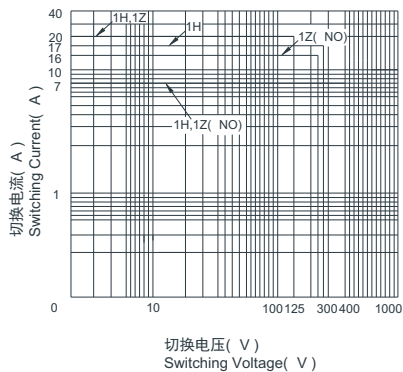
(2)安装孔尺寸中未注尺寸公差为±0.1mm.

(1)The tolerance of part of the product is not marked with dimension tolerance, when the dimension is less than 1 mm, the tolerance is (+ 0.2 mm); when the dimension is between (1-5) mm, the tolerance is (+ 0.3 mm); when the dimension is more than 5 mm, the tolerance is (+ 0.4 mm);

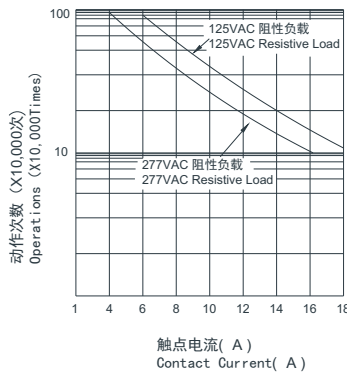
(2)The dimension tolerance of installation holes is not equal to 0.1mm..

性能曲线图/CHARACTERISTIC CHART DATA

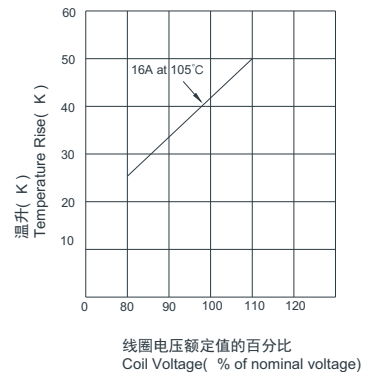
最大切换功率  
Max. Switching Power



寿命曲线  
Life Curves



线圈温升  
Coil Temperature Rise



声明:

本产品的规格书仅供客户使用时参考, 若有更改, 恕不另行通知, 对本公司而言, 不可能评定继电器在每一个具体领域的所有性能参数要求, 因而客户应根据具体的使用条件选择与之相配的产品, 若疑问, 请与云尖联系以便获取更多的技术支持, 但选型责任仅由客户负责。

Disclaimer:

The specification is for reference only. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact "Cloutip" for the technical service. However, it is the use's responsibility to determine which product should be used only.