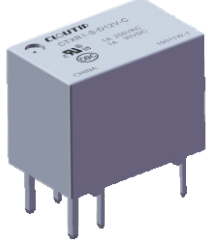




RELAY

微型信号继电器/ Power Relay

<p>CTXR1系列 CTXR1 SERIES</p> 	<ul style="list-style-type: none"> ● 特性 Features <ul style="list-style-type: none"> ● 微型信号继电器 尺寸 : (12.3x7.3x10.2mm) Microminiature signal relay Dimension: (12.3x7.3x10.2mm) ● 3A 触点切换能力 Max.3A switching capability ● 高灵敏度、线圈功耗 150mW High sensitive: Power dissipation 150mW ● 环保产品 (符合 ROHS) Environmentally friendly products (in line with ROHS) ● 塑封型和防焊剂型可供选择 Sealed model and Flux model are available ● 安规认证 Safety Approval <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
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触点参数/CONTACT DATA

触点形式 Contact Form	1A	1C
接触电阻 Contact Resistance	100mΩ Max (at 10mA 30mVDC)	
触点材料 Contact Material	银合金 Ag Alloy	
触点负载 (阻性) Contact Rating (Resistive)	1A 125VAC 2A 30VDC	0.5A 125VAC 1A 30VDC
最大切换电压 Max.Switching Voltage	250VAC/30VDC	
最大切换电流 Max.Switching Current	3A	2A
最大切换功率 Max.Switching Power	125VA/60W	62.5VA/30W
最小应用负载 Min.Applicable load	1mA 5V	
机械寿命 Mechanical	1×10 ⁷ 次 1×10 ⁷ times	
电气寿命 Electrical Life	1×10 ⁵ 次 1×10 ⁵ times	

线圈参数/COIL DATA

额定线圈功率 (W) Rated Coil Power(W)	0.15W,0.2W
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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	500VAC 1min
	线圈与触点间 Between Coil and contacts	1000VAC 1min
动作时间 (额定电压下) Operate time (Under rated voltage)	≤5ms	
释放时间 (额定电压下) Release time (Under rated voltage)	≤5ms	
线圈温升 (额定电压下) Temperature rise (Under rated voltage)	65k Max.	
冲击 Shock Resistance	强度 Endurance	980m/S ²
	稳定性 Misoperation	196m/S ²
振动 Vibration Resistance	10~55HZ,3.3mm双振幅 10~55HZ,1.5mm double amplitude	
湿度 Humidity	5%~95%RH,	
温度范围 Temperature range	-40°C~+70°C	
重量 Weight	约2.2g about 2.2g	

备注: 上述值为初始值
Remark: The data shown above are initial values

安规认证/SAFETY APPROVAL

认证类型 / 认证号 Certified/File No.	触点形式 Contact Form	额定线圈功率 (W) Rated Coil Power(W)	额定线圈电压 (VDC) Rated Coil Voltage(VDC)	认证负载 Safety Approval Rating	备注 Remark
UL/CUL	A	0.2W/0.15W	3-24VDC	1A 125VAC 2A 30VDC	环境温度: 70°C Ambient Temperature: 70°C
	C	0.2W/0.15W	3-24VDC	0.5A 125VDC 1A 125VAC	环境温度: 70°C Ambient Temperature: 70°C
CQC	A	0.2W/0.15W	3-24VDC	1A 125VAC 2A 30VDC	环境温度: 70°C Ambient Temperature: 70°C
	C	0.2W/0.15W	3-24VDC	0.5A 125VAC 1A 30VDC	环境温度: 70°C Ambient Temperature: 70°C

线圈规格/COIL DATA

23°C

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)	额定线圈功率 Rated Coil Power (W)
1.5	11.3	1.20	0.15	标准型 : 0.20 Standard type:0.20
2.4	28.8	1.92	0.24	
3	45	2.40	0.30	
3.5	101.3	3.60	0.45	
5	125	4.00	0.50	
6	180	4.80	0.60	
9	405	7.20	0.90	
12	720	9.60	1.20	
24	2880	19.20	2.40	
1.5	15	1.20	0.15	
2.4	38.4	1.90	0.24	
3	60	2.40	0.30	
4.5	135	3.60	0.45	
5	167	4.00	0.50	
6	240	4.80	0.60	
9	540	7.20	0.90	
12	960	9.60	1.20	
24	3840	19.20	2.40	

命名规则/OPDERING INFORMATION

CTXR1 -H -S -D12V -A (xxx)

客户特性号 :
Customer characteristic No:

触点转换形式: A- 一组常开 A- 一组转换
Contact Forms : A- 1 Form A C- 1 Form C

额定线圈电压 (VDC) : 1.5; 2.4; 03; 4.5; 05; 06; 09; 12; 24
Rated Coil Voltage (VDC) : 1.5; 2.4; 03; 4.5; 05; 06; 09; 12; 24

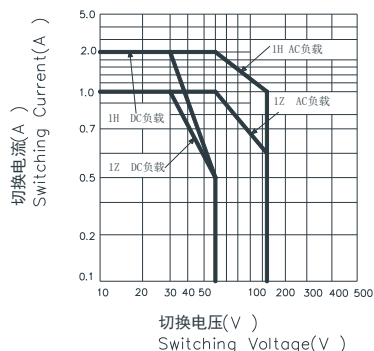
封装形式: S-塑封型 SH-防焊剂型
Packing Forms: S-Plastic Sealed Type SH-Flux Model

额定线圈功率: H-灵敏型0.15W 无-标准型0.2W
Rated Coil Power: H-Sensitive type 0.15W Blank-Standard type0.2W

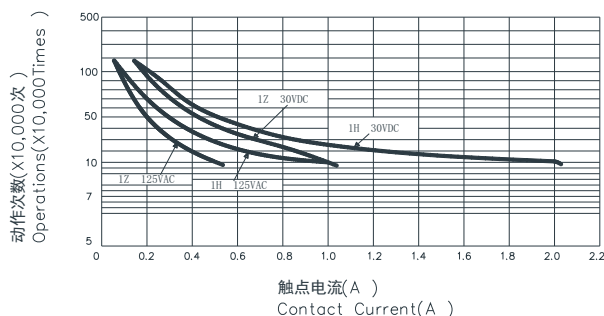
型号: CTXR1
Model: CTXR1

特性曲线图/CHARACTERISTIC CHART DATA

最大切换功率
Max.Switching Power



寿命曲线
Life Curves



SIGNAL RELAY

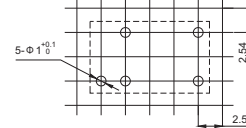
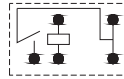
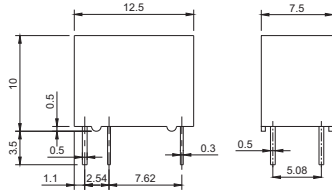
外形图, 接线图, 安装孔尺寸(单位:mm) / OUTLINE DIMENSIONS, WIRING DIAGRAM, PCB LAYOUT(Unit:mm)

外形图/Outline Dimensions

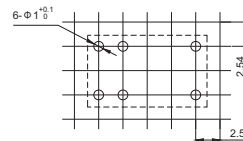
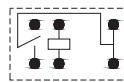
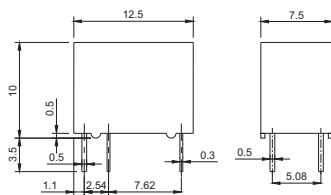
接线图/Wiring Diagram
(底 图) / (Bottom View)

安装孔尺寸/PCB Layout
(底 图) / (Bottom View)

一组常开型/1A type



一组转换型/1C type



- 备注: (1)产品外形图的引脚标准尺寸为沾锡前尺寸(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)产品部分外形尺寸未注尺寸公差,当外形尺寸 $\leq 1\text{mm}$,公差为 $\pm 0.2\text{mm}$;当外形尺寸在 $(0\sim 5)\text{mm}$ 之间时,公差为 $\pm 0.3\text{mm}$;当外形尺寸 $\geq 5\text{mm}$,公差为 $\pm 0.4\text{mm}$;
(3)安装孔尺寸中未注尺寸公差为 $\pm 0.1\text{mm}$;
(4)网格宽度为 2.54mm ;
(5)1C型为6个引出端,1A型为5个引出端。

- Remarks: (1)The pin size of product outline drawing is the standard size before tinning (it will become larger after tinning). The installation hole size is the recommended PCB plate hole design size. The specific PCB plate hole design size can be based on the product. Physical objects are surveyed, mapped and adjusted.
(2)Part of the product's outline dimension is not dimensionally tolerant, when the outline dimension is less than 1 mm, the tolerance is $(\pm 0.2\text{ mm})$; when the outline dimension is between $(0\sim 5)\text{ mm}$, the tolerance is $(\pm 0.3\text{ mm})$; when the outline dimension is more than 5 mm, The tolerance is $\pm 0.4\text{mm}$.
(3)The dimension tolerance of the mounting hole is $(\pm 0.1\text{mm})$.
(4)The width of the mesh is 2.54 mm;
(5)1C type has 6 leads and 1A type has 5 leads.

注意事项:

- 避免在强磁场条件下使用本继电器,外界强磁场会造成继电器动作和释放等参数发生变化;
- 继电器被跌落或超过冲击条件时,有可能会损坏;
- 当继电器装入PCB板焊接后,如需进行整体清洗或表面处理,请与我司联系,以便商定合适的焊接条件、合适的产品规格;
- 对于塑封型产品,在焊接完成后,应将继电器自然冷却到 40°C 以下,再进行清洗、表面处理等后处理,其中,清洗液、表面处理剂的温度也应控制在 40°C 以下.清洗时,避免使用超声波清洗,避免使用汽油、三氯乙烷、氟利昂等对继电器结构件和环境有影响的清洗液;
- 给线圈施加额定电压是使继电器正常工作的基础,使用前请确认施加到继电器线圈上的电压有达到额定电压.对于磁保持继电器,为了确保其动作或复归,施加到线圈上的额定电压的脉冲宽度必须达到动作或复归时间的5倍以上;
- 推荐的使用、存储和运输条件,请参考《继电器术语解释和选用指南》。

- Notice: (1)Avoid using the relay under the condition of strong magnetic field. The external strong magnetic field will cause changes in relay operation and release parameters.
(2) When the relay falls or exceeds the impact condition, it may be damaged.
(3)When the relay is welded on PCB board, if it needs to be cleaned or surface treated as a whole, please contact us in order to negotiate the appropriate welding conditions and product specifications.
(4) For plastic-encapsulated products, after welding, the relay should be naturally cooled below 40°C , then cleaned and surface treated. Among them, the temperature of cleaning fluid and surface treatment agent is also below 40°C . Ultrasound cleaning should be avoided and gasoline, trichloroethane, freon and other cleaning fluids affecting relay structure and environment should be avoided.
(5)Applying rated voltage to the coil is the basis for the normal operation of the relay. Make sure that the voltage applied to the coil of the relay reaches the rated voltage before use. For magnetic retaining relays, in order to ensure The pulse width of the rated voltage applied to the coil must be more than five times of the action or recovery time.
(6)Refer to 《the Guide for Interpretation and Selection of Relay Terminology》 for the recommended conditions of use, storage and transportation.

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.