

特点 FEATURES

- **981-1A系列功率继电器用于电源供应器、电视机和音响系统**
New 981-1A series Power relay is for Power Supplies of TV sets and Audio Systems.
- **UL和TUV安规认证**
UL and TUV safety approval.
- **供应TV额定负载 (TV-3, TV-5 或 TV-8)**
TV Rated (TV-3, TV-5 or TV-8) available.
- **线圈功耗为250mW和540mW**
High sensitive with coil power consumption of 250mW and 540mW.
- **符合UL508, TUV提供**
Model conforming to UL508 and TUV.



用途举例 USE EXAMPLES

电视机、音响系统、电源供应器

接点参数 CONTACT RATING

接点形式 Contact Form	1A SPST-NO		
最大切换功率 Max. Switching Power	2500VA 300W		
最大切换电压 Max. Switching Voltage	250VAC/30VDC		
最大切换电流 Max. Switching Current	10A		
最小切换电流/电压 Min. Switching Current /Voltage	100mA 5VDC		
额定负载(阻性) Rating Load(Resistive)	10A/250VAC 10A/30VDC		
TV负载 TV Rating	TV-3 250VAC	TV-5 250VAC	TV-8 250VAC
接点材质 Contact Material	银合金 Ag Alloy		

性能参数 CHARACTERISTICS

电气寿命 Electrical Life	1×10 ⁵	
机械寿命 Mechanical Life	1×10 ⁷	
绝缘阻抗 Insulation Resistance	Min. 100MΩ 500VDC	
接触电阻 Contact Resistance(Initial)	≤100mΩ (6VDC 1A)	
动作时间 Operate Time	≤15ms	
开放时间 Release Time	≤10ms	
耐压 Initial Dielectric Strength	开放接点间 between open contacts: 50/60Hz 1000VAC 1min 接点线圈间 between contacts and coil: 50/60Hz 4000VAC 1min.	
耐振动 Vibration Resistance	误动作: Functional:	10~55Hz 双振幅 Double Amplitude 1.5mm
	耐久: Destructive:	10~55Hz 双振幅 Double Amplitude 1.5mm
耐冲击 Shock Resistance	误动作: Functional:	10G
	耐久: Destructive:	100G
环境温度 Ambient Temperature	-40℃~+85℃ (无结冰 No freezing)	
相对湿度 Relative Humidity	85% at 40℃	
单位重量 Unit Weight	约Approx.10g	

型号代码说明 ORDERING INFORMATION



线圈额定值 (在20℃) COIL RATINGS (AT 20℃)

线圈形式 Coil Type	线圈额定电压 (V) Coil Nominal Voltage	线圈阻抗 ($\Omega \pm 10\%$) Coil Resistance	动作电压(V) (Max) Pick-Up Voltage	开放电压(V) (Min) Drop-Out Voltage	额定电流 (mA) Nominal Current
直流高灵敏线圈 (abt. 0.25W) DC High Sensitivity Coils	3	36	2.4	0.15	83.3
	5	100	4	0.25	50
	6	144	4.8	0.3	41.7
	9	325	7.2	0.45	27.7
	12	580	9.6	0.6	20.7
	24	2300	19.2	1.2	10.4
直流标准型线圈 (abt. 0.54W) DC Standard Coils	48	9210	38.4	2.4	5.2
	3	17	2.4	0.15	176.5
	5	47	4	0.25	108.7
	6	68	4.8	0.3	88
	9	150	7.2	0.45	60
	12	270	9.6	0.6	44.4
	24	1100	19.2	1.2	21.8
	48	4300	38.4	2.4	11.2

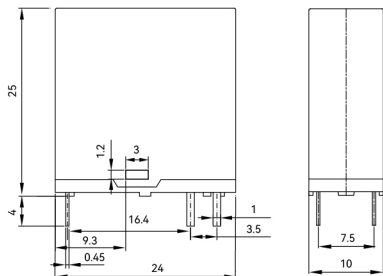
* 最大使用电压在20℃:线圈额定电压的130%

Max Continuous Voltage at 20℃:130% of Coil Normal Voltage

外部尺寸 OUTLINE DIMENSIONS

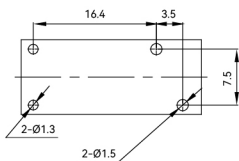
单位: 毫米 UNIT: mm

尺寸 Dimensions



接线图 Internal Connections

(底视图 Bottom View)



孔位图 PCB Layout

(底视图 Bottom View)

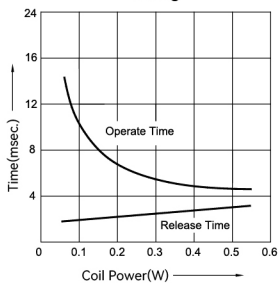


备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

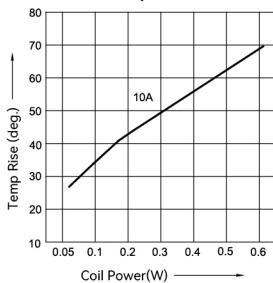
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

参考资料 981 REFERENCE DATA

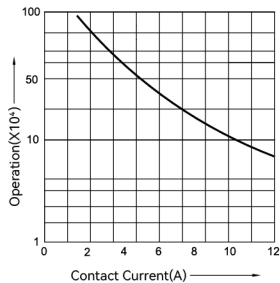
Timing



Coil Temperature Rise



Life Curves



安规认证 SAFETY STANDARD

安规名称 Approval	线圈电压 Coil Voltage	接点额定值 Contact Rating
UL FILE NO.: E162117	DC:3V ~ 48V	10A/250VAC 10A/30VDC TV-3,TV-5,TV-8
TUV FILE NO.: R50261445	DC:3V,5V,6V,9V,12V,24V,48V	10A/250VAC 5A/30VDC