

## FEATURES特点

- UL safety approval.  
UL 安规认证
- Standard type & High sensitivity type available.  
包括标准型及高感度型
- 2 Amps 1 Form C (SPDT) contact super miniature relay.  
2安培1组转换接点超小型继电器
- Nominal power 200mW ~ 360mW.  
正常功率200mW ~ 360mW
- Operating power 110mW ~ 200mW.  
动作功率 110mW ~ 200mW.
- DIL pitch terminal.  
DIL 型端子
- Washable Type (ultrasonic cleaning is not recommended)  
可清洗型 (不建议用超声波清洗)



UL FILE NO.: E162117

用途：通讯设备、办公设备、家用电器等

## CONTACT RATING 接点参数

Contact Form接点形式	1C SPDT
Max. Switching Power最大切换功率	125VA 60W
Max. Switching Voltage最大切换电压	125VAC 30VDC
Max. Switching Current最大切换电流	2A
Min. Switching Current/Voltage最小切换电流/电压	100mV 1mA
Rating Load(Resistive)额定负载(阻性)	1A/125VAC 2A/30VDC
Contact Material 接点材质	Ag Alloy银合金

## CHARACTERISTICS 性能参数

Electrical Life 电气寿命	1 × 10 <sup>5</sup>	
Mechanical Life机械寿命	1 × 10 <sup>7</sup>	
Insulation Resistance绝缘阻抗	Min. 100MΩ 500VDC	
Contact Resistance(Initial)接触电阻	≤ 100mΩ (6VDC 100mA)	
Operate Time 动作时间	≤ 6ms	
Release Time 开放时间	≤ 3ms	
Initial Dielectric Strength 耐压	between open contacts 开放接点间: 50/60Hz 500VAC 1min. between contacts and coil 接点线圈间: 50/60Hz 500VAC 1min.	
Vibration Resistance 耐振动	Malfunction: 误动作:	10 ~ 55Hz Double Amplitude双振幅 1.5mm
	Damage limits: 耐久:	10 ~ 55Hz Double Amplitude双振幅 1.5mm
Shock Resistance 耐冲击	Malfunction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-30°C ~ +70°C (No freezing 无结冰)	
Relative Humidity相对湿度	85% at 40°C	
Unit Weight单位重量	约Approx. 3g	

## ORDERING INFORMATION 型号代码说明

946 H - 1C - 12 - D - F 1 2 3 4 5 6	
1. Model Number 型号 2. Coil Sensitivity 线圈感度 Nil = Standard Type 标准型 (约 0.36W) H = High Sensitive Type 高感度型 (约 0.2W) 3. Contact Arrangement 接点形式 1C = 1 Form C 1组转换 4. Coil Voltage 线圈电压 3、5、6、9、12、24VDC	5. Coil Type 线圈形式 D=DC 直流 6. Terminal Arrangement 端子形式 Nil=General Type 一般型 F = Movable contact terminal & coil terminal at one side 可动接点端子及线圈端子在同一侧

## COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

COIL TYPE 线圈形式	Coil Nominal Voltage 线圈额定电压 (V)	Coil Resistance 线圈阻抗 ( $\Omega \pm 10\%$ )	Pick-Up Voltage 动作电压(V) (Max)	Drop-Out Voltage 开放电压(V) (Min)	Nominal Current 额定电流 (mA)
DC Standard Coils 直流标准型线圈 (abt. 0.36W)	3	25	2.25	0.3	120
	5	70	3.75	0.5	71.4
	6	100	4.5	0.6	60
	9	220	6.75	0.9	40.9
	12	400	9	1.2	30
	24	1600	18	2.4	15
DC High Sensitive Coils 直流高感度型线圈 (abt. 0.2W)	3	45	2.25	0.3	66.7
	5	125	3.75	0.5	40
	6	180	4.5	0.6	33.3
	9	405	6.75	0.9	22.2
	12	720	9	1.2	16.7
	24	2880	18	2.4	8.3

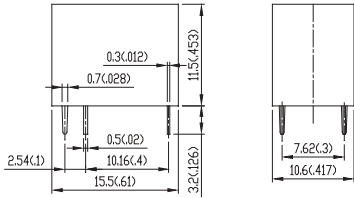
\* Max Continuous Voltage at 20°C: 130% of Coil Normal Voltage.

最大使用电压在20°C:线圈额定电压的130%

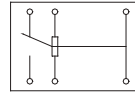
## OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)

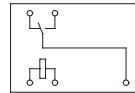
Dimensions尺寸



Internal Connections接线图  
(Bottom View底视图)

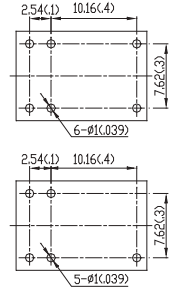


General Type



F Type

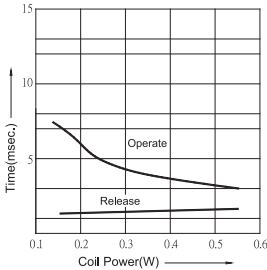
Drilling Plan孔位图  
(Bottom View底视图)



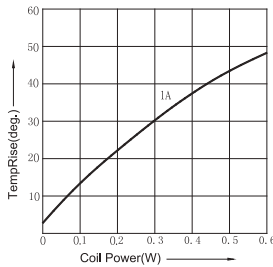
REMARK: Dimensions  $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.2\text{mm}$   
备注: 尺寸公差  $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , 印刷电路板孔 $+0.2\text{mm}$

## 946 Reference Data 参考资料

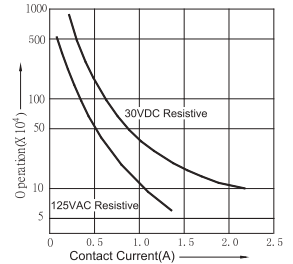
Timing



Coil Temperature Rise



Life Curves



## SAFETY STANDARD 安规认证

SAFETY 安规名称	Coil Voltage 线圈电压	Contact Rated 接点额定值
UL	DC: 5V ~ 24V	1A 125VAC 2A 30VDC