

## FEATURES特点

- UL safety approval. UL 安规认证.
- Subminiature “sugar cube” relay with universal terminal footprint.  
普通端子小型“糖块”式继电器
- Tracking resistance: CTI>250. 漏电起痕电阻: CTI>250
- UL class-B coil insulation for standard model.( UL class-F coil insulation model available)  
标准型符合UL Class B级绝缘型 另有符合 Class F级绝缘型
- Surge strength 4500V.(1.2x50 μs).突波力度为4500V.(1.2x50 μs)
- 400mW and 360mW coil power consumption types available.  
400mW及360mW线圈功率消耗形式皆可供应.



UL FILE NO.: E171095

## CONTACT RATING 接点参数

Contact Form接点形式	1A SPST-NO	1C SPDT
Max. Switching Power最大切换功率	2500VA 240W	
Max. Switching Voltage最大切换电压	277VAC 30VDC	125VAC 30VDC
Max. Switching Current最大切换电流	12A	8A
Min. Switching Current /Voltage 最小切换电流/电压	100mA 5VDC	
Rating Load(Resistive)额定负载(阻性)	12A 120VAC 10A 125VAC	8A 30VDC
General Use一般使用	10A 250VAC 6A 277VAC	—————
Horse Power Load马力负载	1/8HP 120VAC(NC)	1/6HP 120VAC 1/3HP 125VAC 15.0FLA 25.0LRA 120VAC
Pilot Duty灯负载	1.5A 30VAC	—————
TV Rating TV负载	TV-3、TV-5	—————
Contact Material接点材质	Ag Alloy银合金	

## CHARACTERISTICS 性能参数

Electrical Life 电气寿命	$1 \times 10^5$
Mechanical Life机械寿命	$1 \times 10^7$
Insulation Resistance绝缘阻抗	Min. 100MΩ 500VDC
Contact Resistance(Initial)接触电阻	$\leq 100m\Omega$ (6VDC 1A)
Operate Time 动作时间	$\leq 10ms$
Release Time 开放时间	$\leq 5ms$
Initial Dielectric Strength 耐压	between open contacts开放接点间: 50/60Hz 750VAC 1min. between contacts and coil线圈接点间: 50/60Hz 2000VAC 1min.
Vibration Resistance 耐振动	Malfunction: 10 ~ 55Hz Double Amplitude双振幅 1.5mm 误动作: Damage limits: 10 ~ 55Hz Double Amplitude双振幅 1.5mm 耐久:

Shock Resistance 耐冲击	Malfuction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-40°C ~ +85°C	(No freezing 无结冰)
Relative Humidity相对湿度	35% at 85°C	
Unit Weight单位重量	约Approx. 12g	

## ORDERING INFORMATION型号代码说明

Y21 H -1C - 12 D S - F 1 2 3 4 5 6 7	
1. Model Number 型号 2. Coil Sensitivity 线圈感度 Nil =Standard Type. (约0.4W) 标准型 H =High Sensitive Type(约. 0.36W)高感度型 3. Contact Arrangement 接点形式 1A = 1 Form A 1组常开 1C = 1 Form C 1组转换 4. Coil Voltage 线圈电压 3、5、6、9、12、24、48VDC	5. Coil Type 线圈形式 D=DC 直流 6. Enclosure 密封形式 Nil = General Type 普通型 S =Sealed Type 密封型 7. Type of Insulation 绝缘形式 Nil = Class A F = Class F

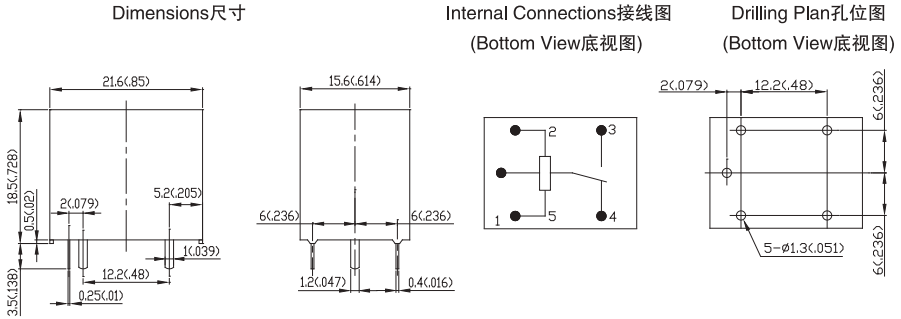
## COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

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 直流标准线圈 (abt. 0.4W)	3	22.5	2.25	0.3	133.3
	5	63	3.75	0.5	79.4
	6	90	4.5	0.6	66.7
	9	200	6.75	0.9	45
	12	360	9	1.2	33.3
	24	1440	18	2.4	16.7
	48	5760	36	4.8	8.33
DC High Sensitive Coils 直流高感度线圈 (abt. 0.36W)	3	25	2.25	0.3	120
	5	70	3.75	0.5	71
	6	100	4.5	0.6	60
	9	225	6.75	0.9	40
	12	400	9	1.2	30
	24	1600	18	2.4	15
	48	6400	36	4.8	7.5

\* 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%

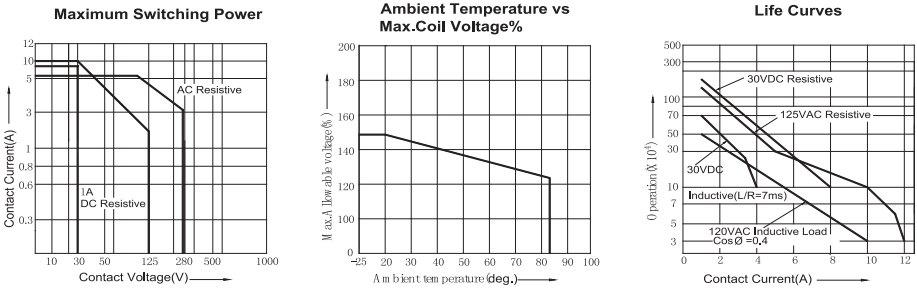
## OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)



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 $+0.2\text{mm}$

## Y21 Reference Data 参考资料



## 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: 3 - 48V	1A: 8A/30VDC 1/6HP/120VAC 1/3HP/125VAC TV-5 120VAC TV-3 125VAC 15.0FLA/25.0LRA 120VAC  1C: 12A/120VAC 10A/125VAC 10A/250VDC 6A/277VAC 1.5A/30VAC(Pilot Duty) 1/8HP 120VAC(NC)