

## FEATURES特点

- UL, TUV & CQC safety approval.  
UL, TUV 及 CQC 安规认证
- Standard type & High sensitivity type available.  
包括标准型及高感度型
- UL Class F (155°C) coil insulation type available.  
供应UL标准 F级 (155°C) 线圈
- TV Rated (TV-3, TV-5 or TV-8) available.  
提供TV负载 (TV-3, TV-5 或 TV-8)
- Heavy current up to 20Amps.  
大电流可达20安培
- Insulation distance: 8mm.  
绝缘距离: 8毫米
- Dielectric strength: 5,000 VAC.  
耐压: 5,000 VAC
- Nominal Power 540mW ~ 720mW.  
正常功率 540mW ~ 720mW
- Operating Power 300mW ~ 410mW.  
动作功率 300mW ~ 410mW



UL FILE NO.: E162117  
TUV FILE NO.: R50048089  
CQC FILE NO.: CQC02001001786

用途: 遥控电视机、复印机、贩售机和空调器。

## CONTACT RATING 接点参数

| Contact Form接点形式                            | 1A SPST-NO<br>1C SPDT<br>(942 T Only) | 1A SPST-NO<br>1C SPDT   | 2A<br>DPST-NO                      | 2C<br>DPDT                         |
|---|---------------------------------------|-------------------------|------------------------------------|------------------------------------|
| Max.Switching Power最大切换功率                   | 4000VA 600W                           | 3000VA 360W             | 1750VA 210W                        | 1250VA 150W                        |
| Max.Switching Voltage最大切换电压                 | 250VAC 30VDC                          |                         |                                    |                                    |
| Max.Switching Current最大切换电流                 | 20A                                   | 12A                     | 7A                                 | 5A                                 |
| Min. Switching Current/Voltage<br>最小切换电流/电压 | 100mA 5VDC                            |                         |                                    |                                    |
| Contact Resistive Load接点阻性负载<br>(Cos Φ=1)   | 16A/250VAC<br>20A/30VDC<br>20A/125VAC | 12A/250VAC<br>12A/30VDC | 7A/250VAC<br>7A/30VDC<br>8A/125VAC | 5A/250VAC<br>5A/30VDC<br>8A/125VAC |
| Inductive Load感性负载<br>(cos Φ=0.4, L/R=7ms)  | 8A/250VAC<br>8A/30VDC                 | 5A/250VAC<br>5A/30VDC   | 2A/250VAC<br>2A/30VDC              |                                    |
| TV Rating TV负载                              | NO:TV-8 125VAC                        | NO:TV-5 125VAC          | TV-3 120VAC                        |                                    |
| 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 1A)   |                                     |
| Operate Time 动作时间               | ≤ 15ms  |                                     |
| Release Time 开放时间               | ≤ 8ms   |                                     |
| Initial Dielectric Strength 耐压  | between open contacts开放接点间: 50/60Hz 1000VAC 1min.<br>between contacts and coil接点线圈间: 50/60Hz 5000VAC 1min.<br>between contact sets接点组间: 50/60Hz 2500VAC 1min. |                                     |
| Vibration Resistance 耐振动        | Malfuction:<br>误动作:   | 10 ~ 55Hz Double Amplitud双振幅 1.5mm  |
|                                 | Damage limits:<br>耐久:   | 10 ~ 55Hz Double Amplitude双振幅 1.5mm |
| Shock Resistance 耐冲击            | Malfuction:<br>误动作:   | 10G                                 |
|                                 | Damage limits:<br>耐久:   | 100G                                |
| Ambient Temperature环境温度         | -40°C ~ +85°C (No freezing 无结冰)   |                                     |
| Relative Humidity相对湿度           | 85% at 40°C   |                                     |
| Unit Weight单位重量                 | 约Approx. 17g  |                                     |

## ORDERING INFORMATION型号代码说明

942 H - 1A - 12 D S - T - F  
 1 2 3 4 5 6 7 8

|  |  |
|--|--|
| <p>1. Model Number 型号</p> <p>2. Coil Sensitivity 线圈感度<br/>Nil = Standard Type标准型 For AC coil only<br/>H = High Sensitive Type高感度型For DC coil only</p> <p>3. Contact Arrangement 接点形式<br/>1A = 1 Form A 1 组常开<br/>1C = 1 Form C 1组转换<br/>2A = 2 Form A 2 组常开<br/>2C = 2 Form C 2 组转换</p> <p>4. Coil Voltage 线圈电压<br/>3、5、6、9、12、24、48、100、110VDC<br/>6、12、24、110、120、220、240VAC</p> | <p>5. Coil Type 线圈形式<br/>A=AC交流<br/>D=DC直流</p> <p>6. Enclosure 密封形式<br/>Nil = Flux tight(PC Cover)抗助焊剂型(PC 外壳)<br/>S = Sealed plastic case密封塑料壳</p> <p>7. Terminal Type 端子形式<br/>Nil = Standard Type 标准型 (1A/1C/2A/2C)<br/>T = High capacity 高容量型(1A-T/1C-T)</p> <p>8. Type of Insulation 绝缘形式<br/>Nil = Class A<br/>F = Class F</p> |
|--|--|

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

| COIL TYPE<br>线圈形式                                      | Coil Nominal Voltage<br>线圈额定电压 (V) | Coil Resistance<br>线圈阻抗 ( $\Omega \pm 10\%$ ) | Pick-Up Voltage<br>动作电压(V) (Max) | Drop-Out Voltage<br>开放电压(V) (Min) | Nominal Current<br>额定电流 (mA) |
|--|------------------------------------|---|----------------------------------|-----------------------------------|------------------------------|
| DC<br>Standard Coils<br>直流标准型线圈<br>(abt. 0.72W)        | 3                                  | 12.5  | 2.1                              | 0.3                               | 240                          |
|  | 5                                  | 36  | 3.5                              | 0.5                               | 138.9                        |
|  | 6                                  | 50  | 4.2                              | 0.6                               | 120                          |
|  | 9                                  | 115   | 6.3                              | 0.9                               | 78.3                         |
|  | 12                                 | 200   | 8.4                              | 1.2                               | 60                           |
|  | 24                                 | 820   | 16.8                             | 2.4                               | 29.3                         |
|  | 48                                 | 3300  | 33.6                             | 4.8                               | 14.5                         |
|  | 100/110                            | 14144   | 70                               | 10                                | 7                            |
| DC<br>High Sensitive Coils<br>直流高感度型线圈<br>(abt. 0.53W) | 3                                  | 17  | 2.25                             | 0.3                               | 176.5                        |
|  | 5                                  | 47  | 3.75                             | 0.5                               | 106.4                        |
|  | 6                                  | 68  | 4.5                              | 0.6                               | 88                           |
|  | 9                                  | 155   | 6.75                             | 0.9                               | 58                           |
|  | 12                                 | 270   | 9                                | 1.2                               | 44.4                         |
|  | 24                                 | 1100  | 18                               | 2.4                               | 21.8                         |
|  | 48                                 | 4400  | 36                               | 4.8                               | 10.9                         |
|  | 100/110                            | 18860   | 75                               | 10                                | 5.3                          |
| AC Coils<br>交流线圈<br>(abt. 0.9VA~1.2VA)                 | 6                                  | 16.5  | 4.8                              | 1.8                               |                              |
|  | 12                                 | 63  | 9.6                              | 3.6                               |                              |
|  | 24                                 | 250   | 19.2                             | 7.2                               |                              |
|  | 110/120                            | 5600  | 88                               | 33                                |                              |
|  | 220/240                            | 22000   | 176                              | 66                                |                              |

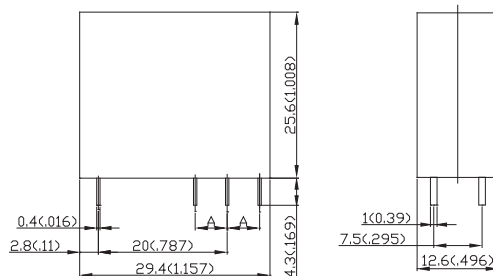
\* Max Continuous Voltage at 20°C: 130% of Coil Normal Voltage. 最大使用电压在20°C:线圈额定电压的130%

\* AC coils Max continuous Voltage at 20°C 110%. 交流线圈最大使用电压在20°C: 线圈额定电压的110%

## OUTLINE DIMENSIONS 外部尺寸

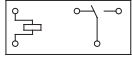
UNIT: mm(inch) 单位: 毫米(英寸)

Dimensions尺寸



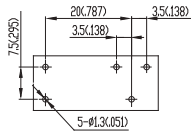
A: 3.5 (.138) ; 5.0 (.197)

Internal Connections接线图  
(Bottom View底视图)

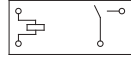


1C

Drilling Plan孔位图  
(Bottom View底视图)

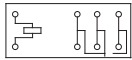
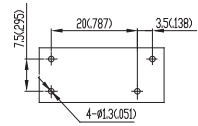


Internal Connections接线图  
(Bottom View底视图)

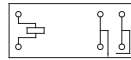
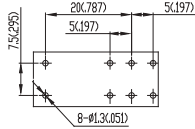


1A

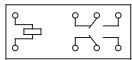
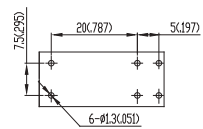
Drilling Plan孔位图  
(Bottom View底视图)



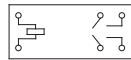
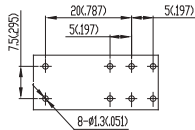
1C-T



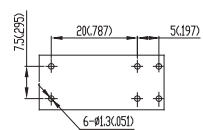
1A-T



2C



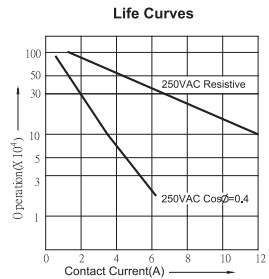
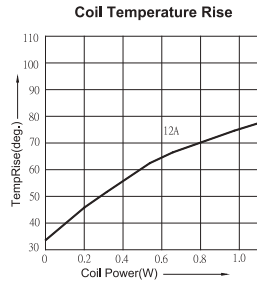
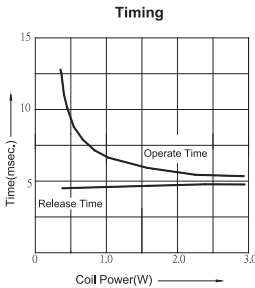
2A



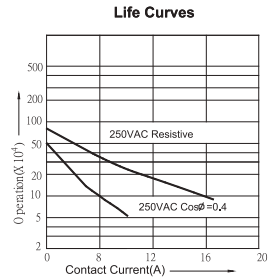
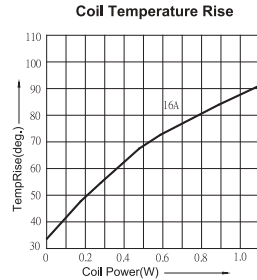
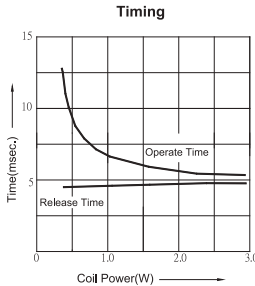
REMARK: Dimensions  $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.2\text{mm}$   
备注: 尺寸公差  $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , 印刷电路板孔 $+0.2\text{mm}$

## 942 Reference Data 参考资料

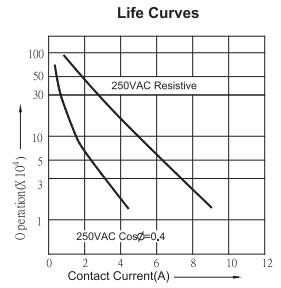
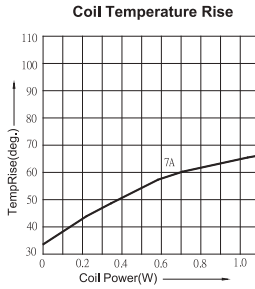
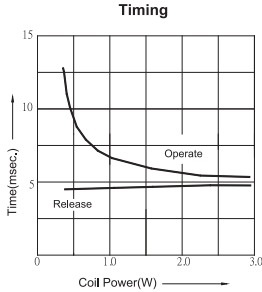
942-1A,942-1C Referential Data



942-1A-T,942-1C-T Referential data



## 942-2A,942-2C Referential data



### SAFETY STANDARD 安规认证

| SAFETY 安规名称 | Coil Voltage 线圈电压  | Contact Rated 接点额定值   |
|-------------|--|---|
| CQC         | DC: 5V,9V,12V,24V,48V<br>AC: 110/120VAC,220/240VAC                           | (942 1A-T) 16A 250VAC<br>(942 1A 1C) 12A 250VAC<br>(942 2C) NO7A / NC5A 250VAC  |
| UL          | DC:3 ~ 110V<br>AC:6 ~ 240V   | (942H/942 1A-T/1C-T):<br>16A 250VAC、20A 125VAC<br>20A 30VDC<br>TV-3 120VAC(NO)<br>TV-8 125VAC(NO)<br>(942H/942 1A/1C):12A 250VAC、12A 30VDC<br>TV-3 120VAC(NO)<br>TV-5 125VAC(NO)<br>(942H/942 2A/2C): 5A 250VAC、5A 30VDC<br>7A 250VAC(NO)<br>7A 30VDC(NO)<br>TV-3 120VAC(NO)<br>8A 125VAC |
| TUV         | DC: 3V,5V,6V,9V,12V,24V,<br>100/110V<br>AC: 6V,12V,24V,<br>110/120V,220/240V | (942 1A/1C-T) 16A 250VAC、16A 30VDC<br>(942 1A/1C) 12A 250VAC、12A 30VDC<br>(942 2A/2C) 5A 250VAC、5A 30VDC  |