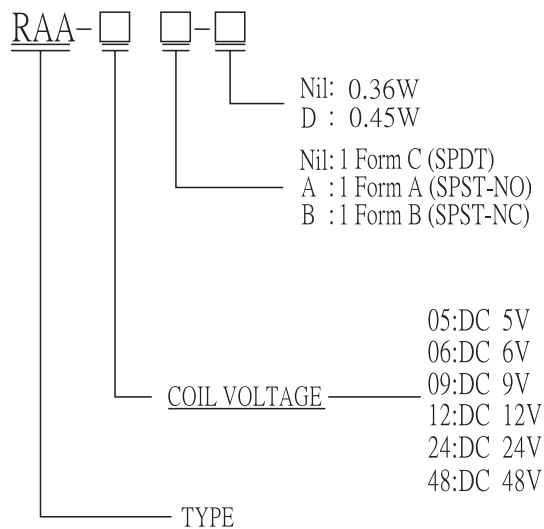


# RAA SERIES

## ORDERING INFORMATION



## FEATURES:

- UL safety approval.
- Heavy current up to 10 amps available
- Epoxy seal type and flux free.
- Satisfying all requirements for household electronic appliances..
- RoHS 2011/65/EU compliant

## COIL RATING(at 20°C)

| NOMINAL VOLTAGE (VDC) | COIL RESISTANCE (Ω)(±10%) | POWER CONSUMPT -ION(W) | NOMINAL CURRENT (mA)(±10%) | PULL IN VOLTAGE (VDC) | DROP OUT VOLTAGE (VDC) | MAX. ALLOWABLE VOLTAGE (VDC) |
|-----------------------|---------------------------|------------------------|----------------------------|-----------------------|------------------------|------------------------------|
| 5V                    | 69 Ω                      | 0.36W                  | 72mA                       | 75% MAX.              | 10% MIN.               | 130%                         |
| 6V                    | 100 Ω                     |                        | 60mA                       |                       |                        |                              |
| 9V                    | 225 Ω                     |                        | 40mA                       |                       |                        |                              |
| 12V                   | 400 Ω                     |                        | 30mA                       |                       |                        |                              |
| 24V                   | 1600 Ω                    |                        | 15mA                       |                       |                        |                              |
| 48V                   | 6400 Ω                    |                        | 7.5mA                      |                       |                        |                              |

|   | NOMINAL VOLTAGE (VDC) | COIL RESISTANCE (Ω)(±10%) | POWER CONSUMPT -10N(W) | NOMINAL CURRENT (mA)(±10%) | PULL IN VOLTAGE (VDC) | DROP OUT VOLTAGE (VDC) | MAX ALLOWABLE VOLTAGE (VDC) |
|---|-----------------------|---------------------------|------------------------|----------------------------|-----------------------|------------------------|-----------------------------|
| D | 5V                    | 55.5Ω                     | 0.45W                  | 90.0mA                     | 75% MAX.              | 10% MIN.               | 130%                        |
|   | 6V                    | 80Ω                       |                        | 75.0mA                     |                       |                        |                             |
|   | 9V                    | 180Ω                      |                        | 50.0mA                     |                       |                        |                             |
|   | 12V                   | 320Ω                      |                        | 37.5mA                     |                       |                        |                             |
|   | 24V                   | 1280Ω                     |                        | 18.8mA                     |                       |                        |                             |
|   | 48V                   | 5120Ω                     |                        | 9.4mA                      |                       |                        |                             |

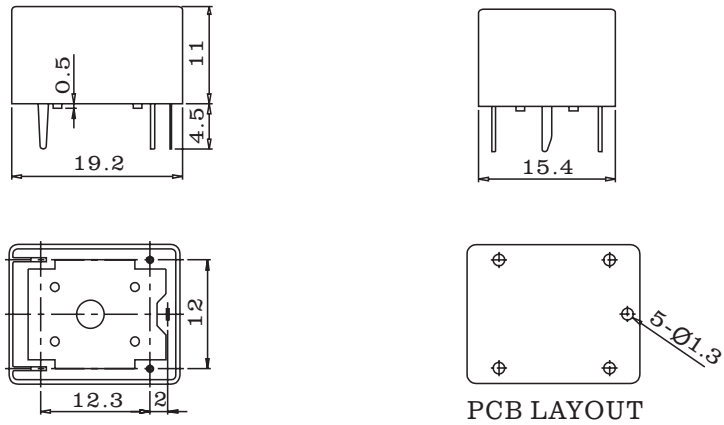
## PERFORMANCE(at initial value)

| Item   | Type | 10A   |
|--|------|---|
| Contact Resistance   |      | 50mΩ Max. (Initial value)   |
| Operate Time   |      | 10msec Max.   |
| Release Time   |      | 5msec Max.  |
| Dielectric Strength<br>between coil & contact<br>between contact |      | AC1500V(1min)<br>AC750V(1min)                                       |
| Insulation Resistance  |      | 100MΩ Min.(DC500V)  |
| Operating Ambient Temperature                                    |      | -30°C ~ +80°C   |
| Humidity   |      | 35 to 85% RH  |
| Vibration Resistance   |      | 10G (10~55Hz)(Dual amplitude:1.5mm)                                 |
| Shock Resistance   |      | 10G   |
| Life Expectancy<br>Mechanically<br>Electrically                  |      | 10,000,000 ops. Min.(1800 ops./h)<br>100,000 ops. Min.(1200 ops./h) |
| Weight   |      | 8g(approx.)   |

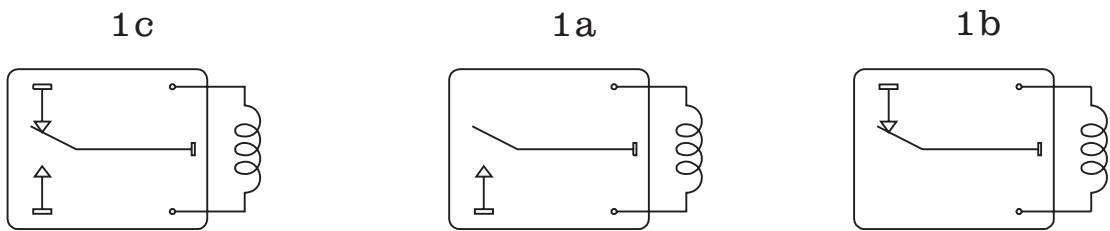
CONTACT RATING

| Item \ Type              | 10A                                   |
|--------------------------|---------------------------------------|
| Rate Carrying Current    | AC125V 10A<br>AC250V 7A<br>DC 24V 10A |
| Max. Allowable Current   | 15A                                   |
| Max. Allowable Voltage   | AC 240V<br>DC 110V                    |
| Max. Current (continual) | 10A                                   |
| Contact Material         | Ag alloy                              |

DIMENSIONS(Unit:mm)



WIRING DIAGRAMS(Bottom View)



REFERENCE DATA

