



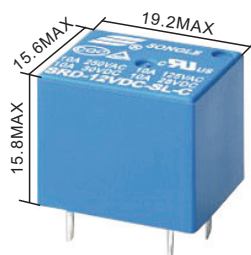
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# SRD Series SUBMINATURE HIGH POWER RELAY 7A/10A/15A



CQC08002027667

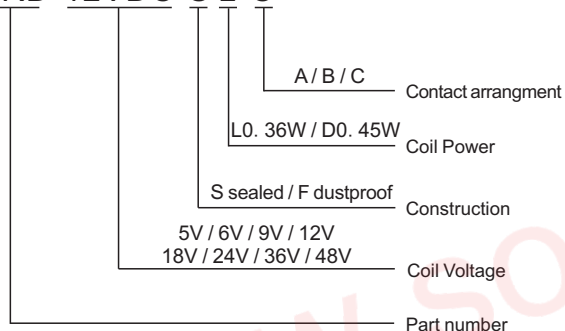


## Features

- Miniature volume, PCB usage
- Contact rating: 7A/10A/15A
- Temperature range: +85°C/+105°C

## Ordering Information

### SRD-12VDC-S L-C



## Contact Rating

|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| Contact arrangement                           | 1A(spsno)/1B(Spsnc)/1C(Spdt)                  |
| Contact resistance                            | 100mΩ (1A 6VDC)                               |
| Contact material                              | Silver alloy: AgCdO、AgSnO <sub>2</sub> 、AgNi  |
| Contact rating                                | 7A/250VAC 10A/250VAC 15A/250VAC               |
| Max switching voltage                         | 250VAC                                        |
| Max switching current                         | 15A                                           |
| Max switching power                           | 3750VA                                        |
| Electrical endurance (frequency: 1800 ops/h)  | 1x10 <sup>5</sup> ops / 1x10 <sup>4</sup> ops |
| Mechanical endurance (frequency: 18000 ops/h) | 1x10 <sup>7</sup> ops                         |

## Characteristics

|                                               |                              |                      |
|-----------------------------------------------|------------------------------|----------------------|
| Insulation system                             |                              | Class B / Class F    |
| Insulation resistance                         |                              | 100MΩ (500VDC)       |
| Dielectric Strength<br>Leakage current<br>1mA | Between contacts<br>and coil | 1500VAC 1 minute     |
|                                               | Between open<br>contacts     | 1000VAC 1 minute     |
| Operate time(Under nominal voltage)           |                              | ≤10ms                |
| Release time(Under nominal voltage)           |                              | ≤10ms                |
| Humidity                                      |                              | 85% RH (20℃)         |
| Ambient Temperature                           |                              | -40℃~+85℃/-40℃~+105℃ |
| Shock<br>resistance                           | Functional                   | 98m/s <sup>2</sup>   |
|                                               | Destructive                  | 980m/s <sup>2</sup>  |
| Vibration resistance<br>(Double amplitude)    |                              | 10Hz~55Hz 1.5mm      |
| Weight                                        |                              | Approx 9g            |
| Construction                                  |                              | Sealed               |

Remark: 1) All above data is initial value

## Coil Data

(at 20°C)

| Power dissipation<br>W | Voltage<br>VDC | Current<br>mA | Resistance<br>Ω ± 10% | Pick-up<br>voltage | Drop-out<br>voltage | Max<br>allowable |
|------------------------|----------------|---------------|-----------------------|--------------------|---------------------|------------------|
| 0.36W<br>(L)           | 05             | 71.4          | 70                    | 75%Max             | 10%Min              | 130%             |
|                        | 06             | 60            | 100                   |                    |                     |                  |
|                        | 09             | 40            | 225                   |                    |                     |                  |
|                        | 12             | 30            | 400                   |                    |                     |                  |
|                        | 18             | 20            | 900                   |                    |                     |                  |
|                        | 24             | 15            | 1600                  |                    |                     |                  |
|                        | 36             | 10            | 3600                  |                    |                     |                  |
|                        | 48             | 7.5           | 6400                  |                    |                     |                  |
| 0.45W<br>(D)           | 05             | 89.3          | 55                    | 75%Max             | 10%Min              | 130%             |
|                        | 06             | 75            | 80                    |                    |                     |                  |
|                        | 09             | 50            | 180                   |                    |                     |                  |
|                        | 12             | 37.5          | 320                   |                    |                     |                  |
|                        | 18             | 25            | 720                   |                    |                     |                  |
|                        | 24             | 18.7          | 1280                  |                    |                     |                  |
|                        | 36             | 12.5          | 2880                  |                    |                     |                  |
|                        | 48             | 10            | 4500                  |                    |                     |                  |

This product specification only for your reference. we will not notify you if we do any improvement. We reserve all the right for the final explanation



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# SRD Series SUBMINATURE HIGH POWER RELAY 7A/10A/15A

## Safety Approval Ratings

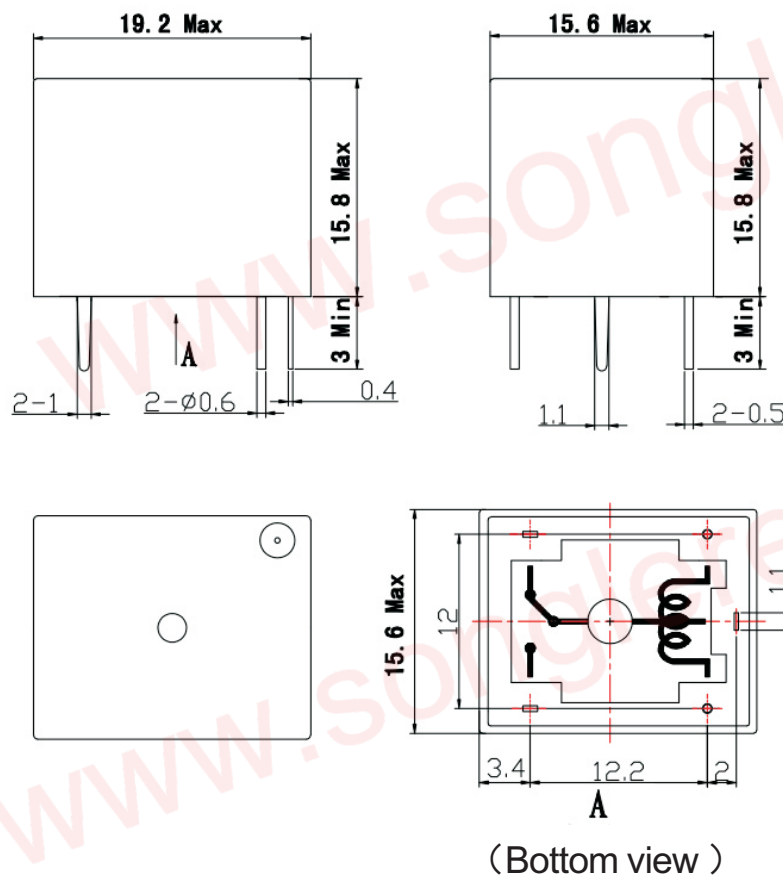
|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
|  CQC08002027667 |
| 7A 250VAC<br>10A 250VAC                                                                          |

|                                                                                                          |
|----------------------------------------------------------------------------------------------------------|
|  R50056114<br>R50137084 |
| 7A 250VAC<br>10A 250VAC<br>15A 250VAC NO                                                                 |

|                                                                                                |
|------------------------------------------------------------------------------------------------|
|  US E167996 |
| 3A 125VAC inductive<br>10A 125VAC<br>15A 125VAC NO                                             |

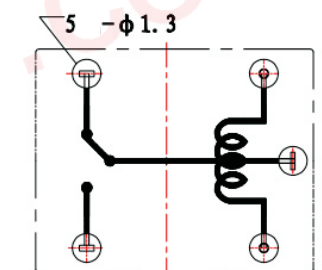
## OUTLINE DIMENSIONS ,WIRING DIAGRAM AND PC BOARD LAYOUT Unit:mm

Physical installation diagram

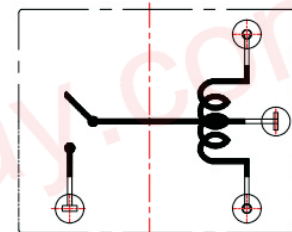


Tolerance:  $\pm 0.1\text{mm}$

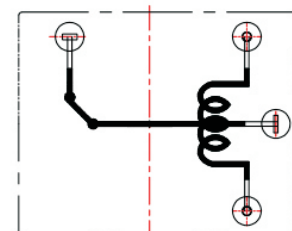
PCB board diagram  
(bottom view diagram)



Conversion C type



Normally open A type



Normally closed B type

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