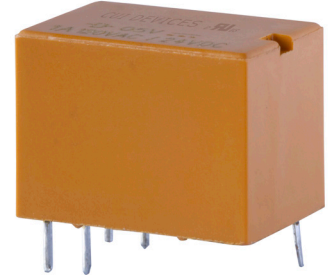


**SERIES:** SR7 | **DESCRIPTION:** SIGNALRELAY

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**FEATURES**

- 3~24 Vdc coil voltage
- 200 mW coil power
- contact form 1C

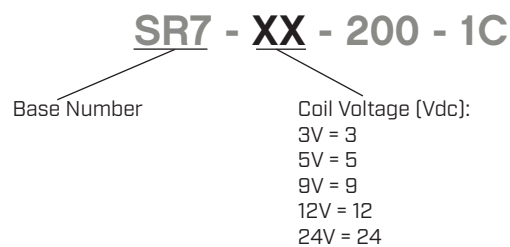
**MODEL**

|                | coil<br>voltage<br>typ<br>(Vdc) | coil<br>resistance<br>( $\Omega \pm 10\%$ ) | operating voltage<br>min<br>(Vdc) | release<br>voltage<br>max<br>(Vdc) | coil<br>power<br>typ<br>(mW) |
|----------------|---------------------------------|---------------------------------------------|-----------------------------------|------------------------------------|------------------------------|
|                |                                 |                                             |                                   |                                    |                              |
| SR7-3V-200-1C  | 3                               | 45                                          | 2.25                              | 0.3                                | 200                          |
| SR7-5V-200-1C  | 5                               | 125                                         | 3.75                              | 0.5                                | 200                          |
| SR7-9V-200-1C  | 9                               | 405                                         | 6.75                              | 0.9                                | 200                          |
| SR7-12V-200-1C | 12                              | 720                                         | 9.0                               | 1.2                                | 200                          |
| SR7-24V-200-1C | 24                              | 2,880                                       | 18.0                              | 2.4                                | 200                          |

Notes: 1. All specifications are measured at 23°C unless otherwise specified.

**PART NUMBER KEY**

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## CONTACT SPECIFICATIONS

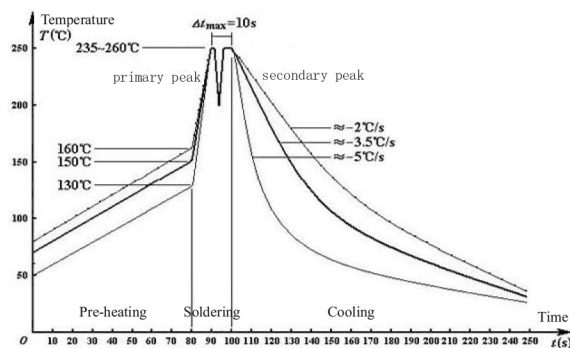
| parameter             | conditions/description   | min | typ                   | max       | units                    |
|-----------------------|--------------------------|-----|-----------------------|-----------|--------------------------|
| contact form          | 1 Form C                 |     |                       |           |                          |
| contact material      | AuAg overlay             |     |                       |           |                          |
| contact rating        | 1 A @ 120 Vac, 24 Vdc    |     |                       |           |                          |
| contact resistance    | at 6 Vdc, 0.1 A          |     |                       | 50        | mΩ                       |
| max switching voltage |                          |     |                       | 220<br>30 | Vac<br>Vdc               |
| max switching current |                          |     |                       | 3         | A                        |
| max switching power   |                          |     |                       | 360<br>72 | VA<br>W                  |
| min switching load    | 5 Vdc, 10 mA             |     |                       |           |                          |
| life                  | electrical<br>mechanical |     | 100,000<br>10,000,000 |           | operations<br>operations |

## GENERAL SPECIFICATIONS

| parameter             | conditions/description                                                                          | min | typ          | max | units                                |
|-----------------------|-------------------------------------------------------------------------------------------------|-----|--------------|-----|--------------------------------------|
| insulation resistance | at 500 Vdc                                                                                      | 100 |              |     | MΩ                                   |
| dielectric strength   | between open contacts for 1 minute<br>between coil and contacts for 1 minute                    |     | 750<br>1,500 |     | Vac<br>Vac                           |
| operate time          |                                                                                                 |     |              | 5   | ms                                   |
| release time          |                                                                                                 |     |              | 5   | ms                                   |
| shock resistance      | endurance<br>misoperation                                                                       |     | 1,000<br>100 |     | m/s <sup>2</sup><br>m/s <sup>2</sup> |
| vibration resistance  | endurance: 10~55 Hz, 1.5 mm double amplitude<br>misoperation: 10~55 Hz, 1.5 mm double amplitude |     |              |     |                                      |
| operating temperature |                                                                                                 | -25 |              | 70  | °C                                   |
| humidity              | at 40°C                                                                                         | 35  |              | 95  | %RH                                  |
| weight                |                                                                                                 |     | 4.0          |     | g                                    |
| safety approvals      | UL/cUL 508                                                                                      |     |              |     |                                      |
| flammability rating   | UL94V-0                                                                                         |     |              |     |                                      |
| RoHS                  | yes                                                                                             |     |              |     |                                      |
| packaging             | tube: 25 pcs per tube<br>carton size: 466 x 306 x 140 mm<br>carton QTY: 2,000 pcs per carton    |     |              |     |                                      |

## SOLDERABILITY

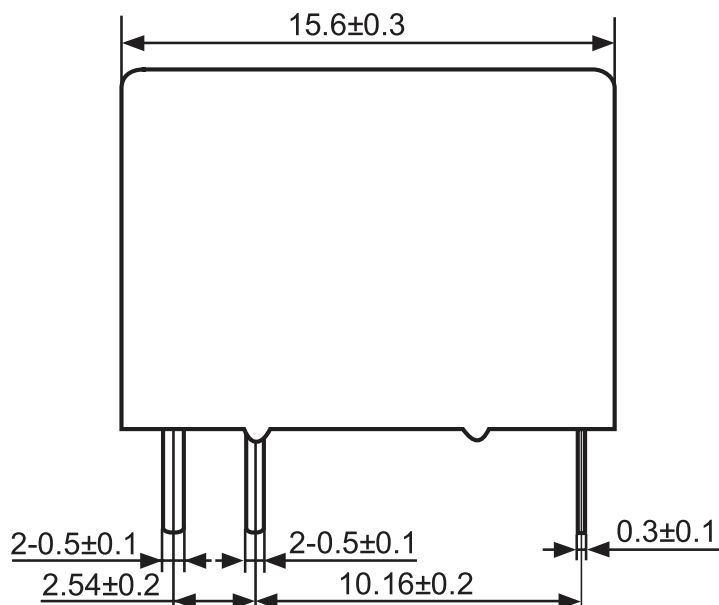
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for 3.5±0.5 seconds    | 340 | 350 | 360 | °C    |
| wave soldering | for 10±1 seconds       | 255 | 260 | 265 | °C    |



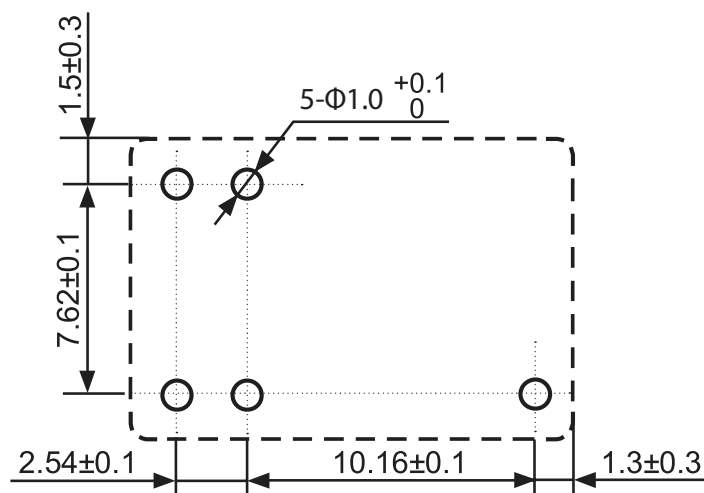
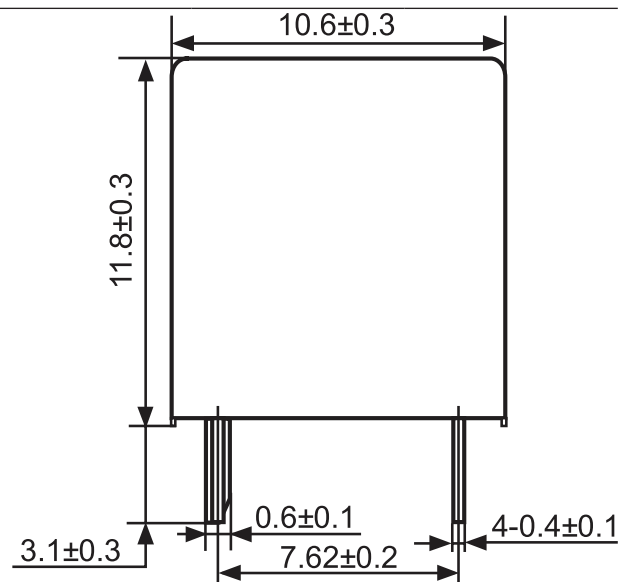
Double-wave Soldering Curve

## MECHANICAL DRAWING

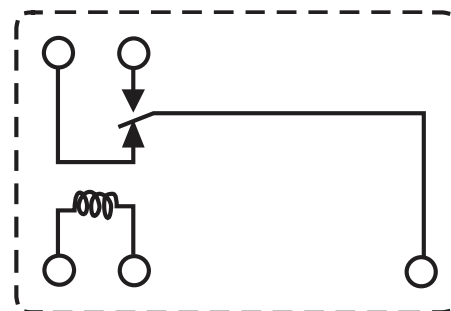
units: mm  
tolerance:  $\pm 0.3$  mm  
unless otherwise noted



| ITEM | DESCRIPTION | MATERIAL             | PLATING/COLOR |
|------|-------------|----------------------|---------------|
| A    | housing     | PBT [UL94V-0]        | orange        |
| B    | terminals   | copper covered steel | tin           |



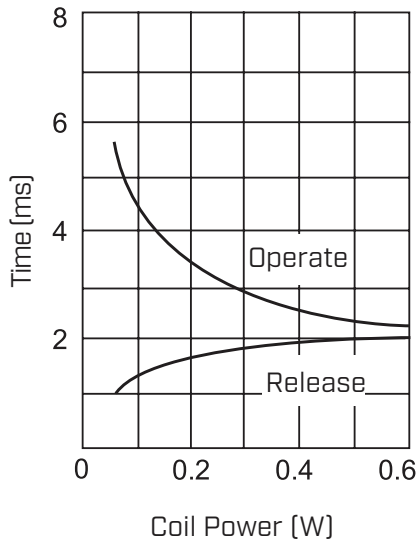
Recommended PCB Layout  
Bottom View



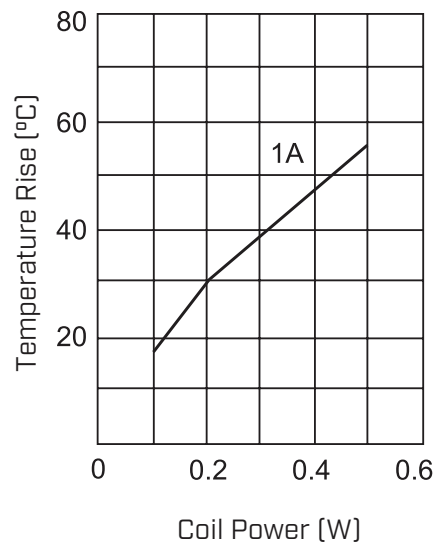
Wiring Diagram  
Bottom View

## CHARACTERISTIC CURVES

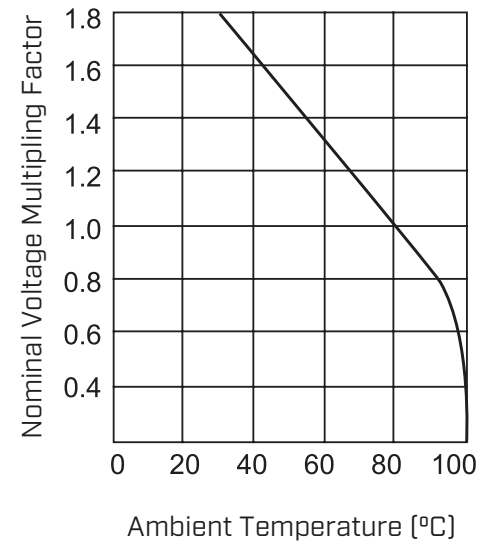
Time Curve



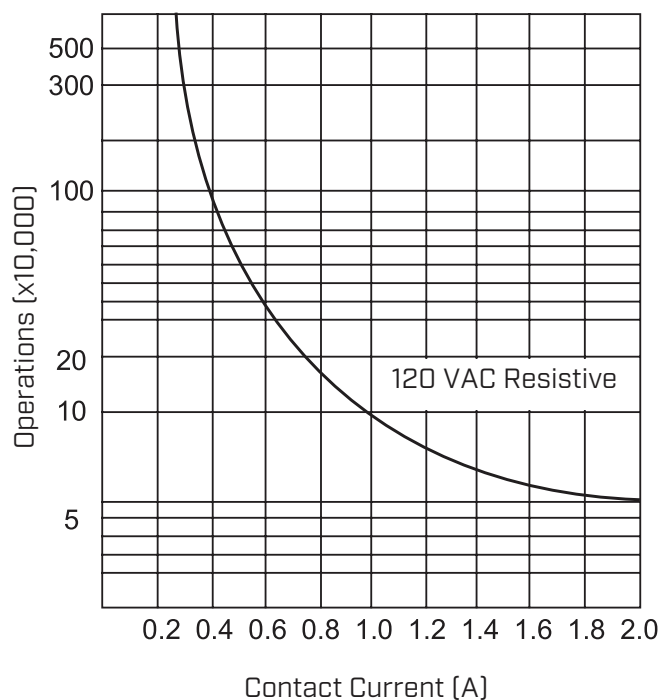
Coil Temperature Rise



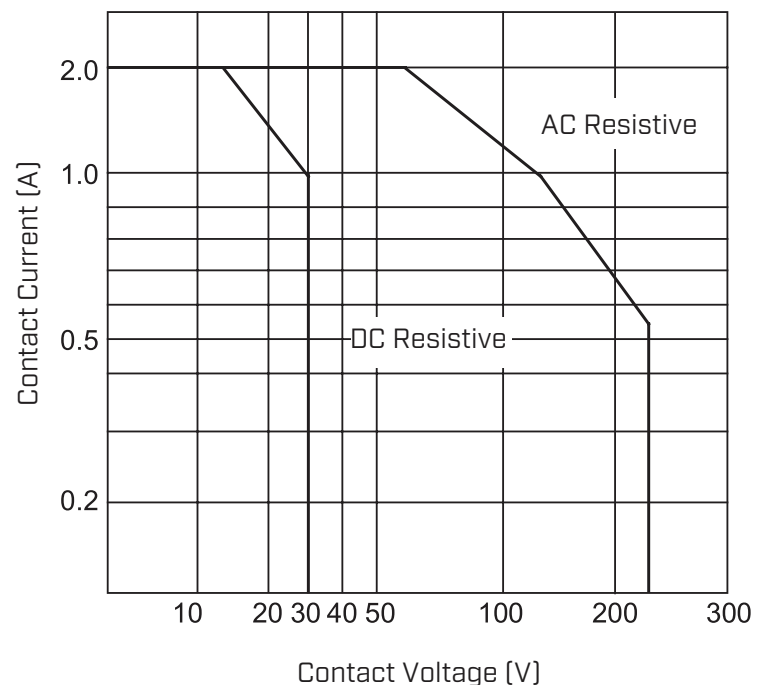
Operate Range



Life Curve



Maximum Switching Power



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 06/07/2022 |
| 1.01 | logo, datasheet style update | 10/28/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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