

RoHS  
Compliant



## Features

- Compact structure, Light weight
- Dimensions: 15.5mm × 12.2mm × 13.9mm
- Max.Continuous Current: 35A/10min. 25A/1h
- Comply to IEC 60335-1
- UL Class F insulation

## Specification

| Contact Data          |                               |                                    |
|-----------------------|-------------------------------|------------------------------------|
| Contact Form          | 1 Form A, 1 Form B, 1 Form C  |                                    |
| Contact Material      | Ag Alloy                      |                                    |
| Contact Rating        | NO/NC:10A /6A 250V AC, 28V DC |                                    |
| Contact Resistance    | Max. 100mΩ (6V DC 1A)         |                                    |
| Load                  | Max. Switching Voltage        | 250V AC/28V DC                     |
|                       | Max. Switching Current        | 10A                                |
|                       | Max. Switching Power          | 2500VA, 280W                       |
|                       | Min. Switching Load           | 5V DC, 100mA                       |
| Life                  | Electrical                    | 50,000 operations                  |
|                       | Mechanical                    | 10,000,000 operations              |
| Coil Data             |                               |                                    |
| Nominal Coil Power    | 0.36W, 0.45W, 0.64W, 0.8W     |                                    |
| General Data          |                               |                                    |
| Insulation Resistance | Min. 1000MΩ 500V DC           |                                    |
| Dielectric Strength   | Between open contacts         | 750V AC, 1min                      |
|                       | Between coil and contacts     | 1,500V AC, 1min                    |
| Operate Time          | Max. 10ms                     |                                    |
| Release Time          | Max. 10ms                     |                                    |
| Operating Temperature | -40°C to +105°C               |                                    |
| Humidity              | 35 to 95%RH, +40°C            |                                    |
| Shock Resistanc       | Endurance                     | 1,000m/s <sup>2</sup>              |
|                       | Misoperation                  | 100m/s <sup>2</sup>                |
| Vibration Resistance  | Endurance                     | 10 to 55Hz, 1.5mm double amplitude |
|                       | Misoperation                  | 10 to 55Hz, 1.5mm double amplitude |
| Weight                | Approximately 6g              |                                    |

Note:Data shown are of initial value

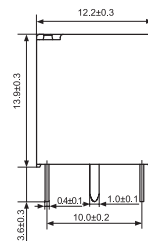
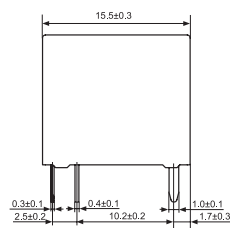
## Coil Data

| Model             | Nominal Voltage<br>V DC | Coil Resistance<br>$\Omega \pm 10\%$ | Operate Voltage<br>$\leq V$ DC | Release Voltage<br>$\geq V$ DC | Coil Power<br>mW |
|-------------------|-------------------------|--------------------------------------|--------------------------------|--------------------------------|------------------|
| MPHRS5G-S-DC5V-A  | 5                       | 55                                   | 3.5                            | 0.5                            | 0.45             |
| MPHRS5G-S-DC24V-A | 24                      | 1280                                 | 16.8                           | 2.4                            |                  |
| MPHRS5G-S-DC5V-C  | 5                       | 55                                   | 3.5                            | 0.5                            |                  |
| MPHRS5G-S-DC24V-C | 24                      | 1280                                 | 16.8                           | 2.4                            |                  |

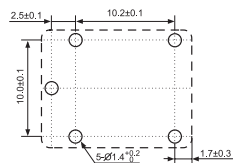
## Outline, Wiring Diagram, Mounting Hole Layout

1 Form C

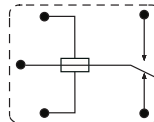
Outline



Mounting Hole Layout  
(Bottom View)

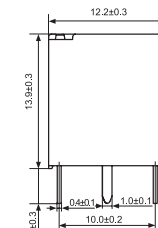
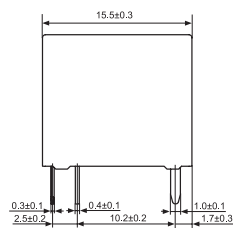


Wiring Diagram  
(Bottom View)

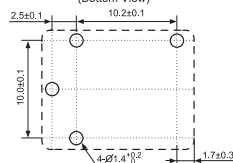


1 Form A

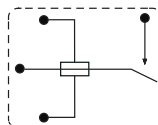
Outline

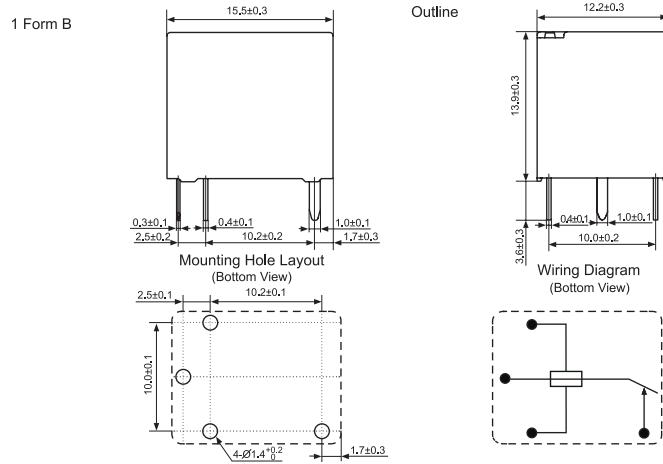


Mounting Hole Layout  
(Bottom View)



Wiring Diagram  
(Bottom View)





## Part Number Table

| Description                                    | Part Number       |
|--|-------------------|
| Power Relay, PCB Type, NO, 10 Amp, 5V DC       | MPHRS5G-S-DC5V-A  |
| Power Relay, PCB Type, NO, 10 Amp, 24V DC      | MPHRS5G-S-DC24V-A |
| Power Relay, PCB Type, NO/NC, 10/6 Amp, 5V DC  | MPHRS5G-S-DC5V-C  |
| Power Relay, PCB Type, NO/NC, 10/6 Amp, 24V DC | MPHRS5G-S-DC24V-C |

Dimensions : Millimetres

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