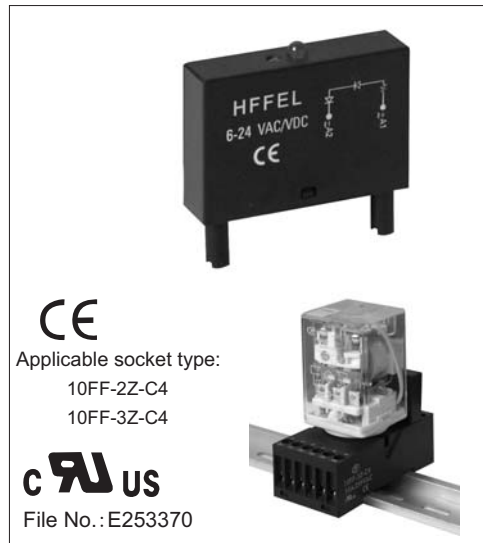
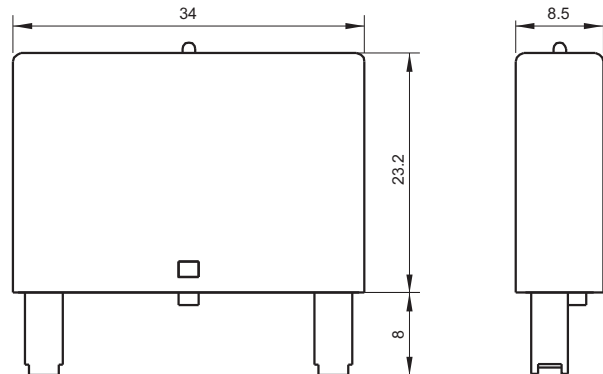




## OUTLINE DIMENSIONS



## SPECIFICATIONS FOR MODULES

| Ordering Code <sup>1)</sup> | Circuit Diagram | Voltage        | Components               | Functions                                                                                                                                                                |
|-----------------------------|-----------------|----------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HFFAA                       |                 | 6VDC to 220VDC | Diode                    | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> </ul>                                                 |
| HFFAB                       |                 | 6VDC to 220VDC | Diode                    | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> </ul>                                                 |
| HFFBC (R)<br>HFFBC (G)      |                 | 6VDC to 24VDC  | Diode<br>LED<br>Resistor | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul> |
| HFFBD (R)<br>HFFBD (G)      |                 | 24VDC to 60VDC | Diode<br>LED<br>Resistor | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul> |
| HFFBE (R)<br>HFFBE (G)      |                 | 110VDC         | Diode<br>LED<br>Resistor | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul> |

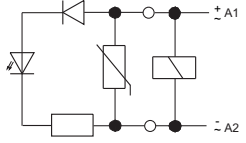
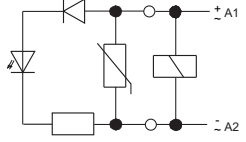
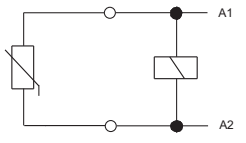
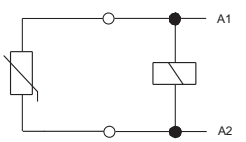
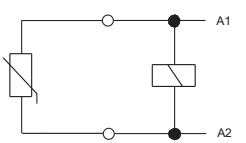
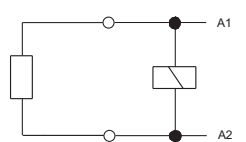


HONGFA RELAY

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2013 Rev. 1.00

| Ordering Code <sup>1)</sup> | Circuit Diagram | Voltage                    | Components                           | Functions                                                                                                                                                                                                                                                         |
|-----------------------------|-----------------|----------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HFFCF (R)<br>HFFCF (G)      |                 | 6VDC to 24VDC              | Diode<br>LED<br>Resistor             | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>                                                                                          |
| HFFCG (R)<br>HFFCG (G)      |                 | 24VDC to 60VDC             | Diode<br>LED<br>Resistor             | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>                                                                                          |
| HFFCH (R)<br>HFFCH (G)      |                 | 110VDC                     | Diode<br>LED<br>Resistor             | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>                                                                                          |
| HFFDI                       |                 | 6V to 24V<br>AC / DC       | Capacitor<br>Resistor                | <ul style="list-style-type: none"> <li>● With RC to protect the coil and to absorb instant starting surge current</li> </ul>                                                                                                                                      |
| HFFDJ                       |                 | 24V to 60V<br>AC / DC      | Capacitor<br>Resistor                | <ul style="list-style-type: none"> <li>● With RC to protect the coil and to absorb instant starting surge current</li> </ul>                                                                                                                                      |
| HFFDK                       |                 | 110V to 230V<br>AC / DC    | Capacitor<br>Resistor                | <ul style="list-style-type: none"> <li>● With RC to protect the coil and to absorb instant starting surge current</li> </ul>                                                                                                                                      |
| HFFEL (R)<br>HFFEL (G)      |                 | 6V to 24V<br>AC / DC       | Diode<br>LED<br>Resistor             | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>                                                                                          |
| HFFEM (R)<br>HFFEM (G)      |                 | 24V to 60V<br>AC / DC      | Diode<br>LED<br>Resistor             | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>                                                                                          |
| HFFEN (R)<br>HFFEN (G)      |                 | 110VAC to 230VAC<br>110VDC | Diode<br>LED<br>Resistor             | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>                                                                                          |
| HFFFO (R)<br>HFFFO (G)      |                 | 6V to 24V<br>AC / DC       | Diode<br>LED<br>Resistor<br>Varistor | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul> |

| Ordering Code <sup>1)</sup> | Circuit Diagram                                                                     | Voltage                    | Components                           | Functions                                                                                                                                                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------|----------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HFFFP (R)<br>HFFFP (G)      |    | 24V to 60V<br>AC / DC      | Diode<br>LED<br>Resistor<br>Varistor | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul> |
| HFFFQ (R)<br>HFFFQ (G)      |    | 110VAC to 230VAC<br>110VDC | Diode<br>LED<br>Resistor<br>Varistor | <ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul> |
| HFFGR                       |    | 24VAC                      | Varistor                             | <ul style="list-style-type: none"> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>                                                                                                                                 |
| HFFGS                       |    | 115VAC                     | Varistor                             | <ul style="list-style-type: none"> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>                                                                                                                                 |
| HFFGT                       |   | 230VAC                     | Varistor                             | <ul style="list-style-type: none"> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>                                                                                                                                 |
| HFFHU                       |  | 110VAC to 230VAC           | Resistor                             | <ul style="list-style-type: none"> <li>● With resistor to protect the coil and to spread around current</li> </ul>                                                                                                                                                |

**Notes:** 1) When there is LED in the module, please indicate (R) or (G) to show the color of the light, for example HFBC(R) or HFBC (G). (R) means red light while (G) means green light.

#### Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.