# HF9313

## HALF-SIZE CRYSTAL CAN HIGH TEMPERATURE HERMETICALLY SEALED ELECTRO MAGNETIC RELAY




### Features

- Ambient temperature can be 180˚C
- High ambient applicability
- Hermetically welded and marked by laser

## AMBIENT ADAPTABILITY

| | | |
|---|---|---|
| Ambient temperature | | −65 ˚C ~ 180 ˚C |
| Humidity | | 98 %，40 ˚C |
| Low air pressure | | 4.39 kPa |
| Sine vibration | Frequency | 10 Hz ~ 3000 Hz |
| | Acceleration | 294 m/s$^2$ |
| Shock resistance | | 980 m/s$^2$ |
| Random vibration | | 40 (m/s$^2$)$^2$/Hz |
| Steady-state acceleration | | 490 m/s$^2$ |

## CONTACT DATA

| | | |
|---|---|---|
| Arrangement | | 2 C |
| Contact resistance | Initial max. | 50 mΩ |
| | After life max. | 250 mΩ |

### Contact ratings

| Contact load | Type | Electrical life min. |
|---|---|---|
| 2 A 28 Vd.c. | Resistive | 5 x 10$^4$ OPS |
| 1 A 28 Vd.c. | Resistive | 1 x 10$^5$ OPS |
| 50 μA 50 mVd.c. | Low level | 1 x 10$^5$ OPS |

## SPECIFICATION

| | | |
|---|---|---|
| Insulation resistance min. | | 10000 MΩ (@ 500 Vd.c.) |
| Dielectric strength min. (Normal condition) | Between open contacts | 500 Vr.m.s. |
| | Between contact & coil | 1000 Vr.m.s. |
| | Between contact & cover | 1000 Vr.m.s. |
| | Between contact group | 1000 Vr.m.s. |
| | Between coil & cover | 500 Vr.m.s. |
| Dielectric strength min. (Low air pressure condition) | | 350 Vr.m.s. |
| Leakage rate max. | | 1 x 10$^{-3}$ Pa•cm$^3$/s |
| Operate time max. | | 4 ms |
| Release time max. | | 4 ms |
| Mounting style | | See the mounting dimension |
| Terminals | | See the terminal styles |
| Work position | | Random |
| Weight max. | | 13 g |

## COIL DATA

| | |
|---|---|
| Norminal coil power | Approx.0.9W |

### Coil Version

Vd.c.

| Order Number | Coil voltage | | at 25 ˚C | | | | -65˚C to 125˚C | | |
|---|---|---|---|---|---|---|---|---|---|
| | Nominal voltage | Value max. | Coil resistance (1±10%) Ω | Pick-up voltage max. | Hold voltage max. | Drop-out voltage min. | Pick-up voltage max. | Hold voltage max. | Drop-out voltage min. |
| 005 | 5 | 6.0 | 27 | 2.7 | 1.65 | 0.29 | 4.3 | 2.4 | 0.21 |
| 006 | 6 | 7.5 | 40 | 3.2 | 2.00 | 0.35 | 5.1 | 2.9 | 0.25 |
| 012 | 12 | 15.0 | 160 | 6.4 | 4.00 | 0.70 | 10.2 | 5.8 | 0.50 |
| 027 | 27 | 32.0 | 700 | 13.5 | 8.00 | 1.50 | 23.0 | 14.0 | 1.00 |

**Notes:** We can offer many kinds of of coil voltage under the requirement of users.

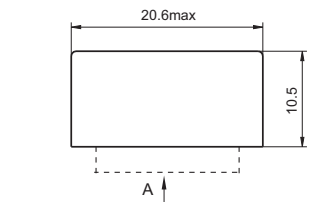
## ORDERING INFORMATION

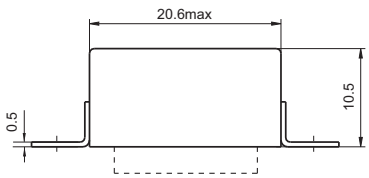
| | HF9313 | -012 | -0 | 1 |
|---|---|---|---|---|
| **Type** | | | | |
| **Order Number** | 005、006、012、027 | | | |
| **Mounting Style** | 0、1、2、3 (See the mounting dimension) | | | |
| **Terminals Style** | 1，4 (See " Terminal styles " below) | | | |

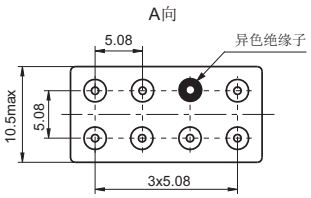
## OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit:mm

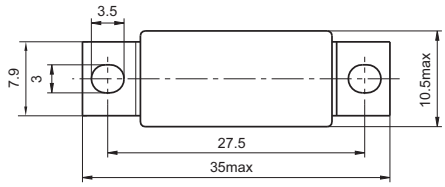
Outline Dimension



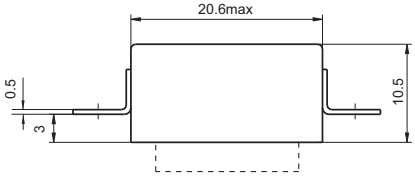



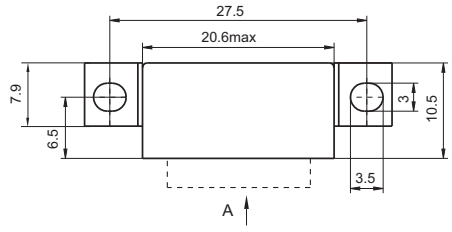



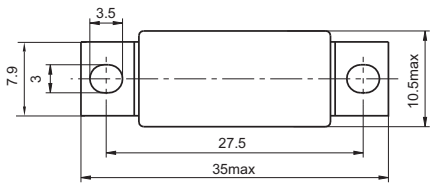

Mouting style 0



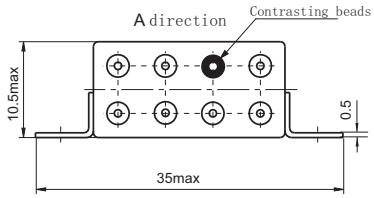

Mouting style 1



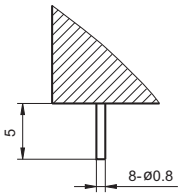

Mouting style 2



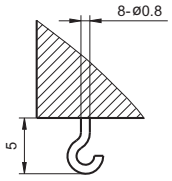

Mouting style 3

## OUTLINE DIMENSIONS AND WIRING DIAGRAM

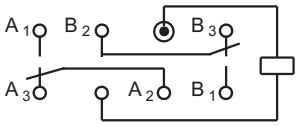
Unit:mm




Terminal style 1
(Solder pin)




Terminal style 4
(Solder hook)




Wiring Diagram
(Bottom View)

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

© Xiamen Hongfa Hermetically Sealed Relays Co., Ltd. All rights of Hongfa are reserved.