

HF9112

TO-5 SENSITIVE DPDT HERMETICALLY SEALED RELAY



Features

- Coil power consumption:0.25W
- Height:7.11mm
- High ambient applicability
- All metal welded construction
- Hermetically welded and marked by laser

Conform to military standard: GJB1042A-2002 MIL-R-5757

AMBIENT ADAPTABILITY

| | | | |
|-------------------------|----------------------------|---------------------|--------------------------|
| Ambient Grade | I | | II |
| Ambient Temperature | -55°C ~ 85°C | | -65°C ~ 125°C |
| Humidity | | | 98%, 40°C |
| Low Air Pressure | | | 4.4KPa |
| Vibration Resistance | Frequency | 10Hz ~2000Hz | 10Hz ~ 3000Hz |
| | Acceleration | 196m/s ² | 294m/s ² |
| Shock Resistance | | | 735m/s ² |
| Acceleration | | | 490m/s ² |
| Random Vibration | | | 40(m/s ²)/Hz |
| Implementation Standard | GJB1042A-2002 (MIL-R-5757) | | |

CONTACT DATA

| | | | |
|-------------------------|------------|--|---|
| Arrangement | | | 2C |
| Contact Material | | | Gold/Platinum/Palladium/Silver alloy(Gold plated) |
| Contact Resistance max. | Initial | | 100mΩ |
| | After Life | | 200mΩ |

Contact Ratings

| Ambient Grade | Contact Load | Type | Electrical Life min. |
|---------------|--------------------|-----------|-------------------------|
| I | 0.5A 28Vd.c. | Resistive | 1 x 10 ⁵ ops |
| | 0.5A 28Vd.c. | Resistive | 1 x 10 ⁵ ops |
| | 1A 28Vd.c. | Resistive | 1 x 10 ⁴ ops |
| II | 0.1A 115Va.c. | Resistive | 1 x 10 ⁵ ops |
| | 0.2A 28Vd.c. 320mH | Inductive | 1 x 10 ⁵ ops |
| | 0.1A 28Vd.c. | Lamp | 1 x 10 ⁵ ops |
| | 50μA 50mVd.c. | Low Level | 1 x 10 ⁵ ops |

SPECIFICATION

| | | | |
|--|--------------------------|------------|--|
| Ambient Grade | I | | II |
| Insulation Resistance min. | 1000MΩ (@ 500Vd.c.) | | 10000MΩ (@ 500Vd.c.) |
| Dielectric Strength min. (Normal condition) | Between open contacts | 500Vr.m.s. | 500Vr.m.s. |
| | Between contacts & coil | 500Vr.m.s. | 500Vr.m.s. |
| | Between contacts & cover | 500Vr.m.s. | 500Vr.m.s. |
| | Between contacts sets | 500Vr.m.s. | 500Vr.m.s. |
| | Between coil & cover | 500Vr.m.s. | 500Vr.m.s. |
| Dielectric Strength min. (Low air pressure condition) | 125Vr.m.s. | | 125Vr.m.s. |
| Leakage Rate | 1 Pa·cm ³ /s | | 1 x 10 ⁻³ Pa·cm ³ /s |



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 1.00

SPECIFICATION

| | | |
|-------------------|---|-----------------|
| Ambient Grade | I | II |
| Operate Time max. | | 2ms |
| Release Time max. | | 1.5ms |
| Mounting Style | | In-line package |
| Terminals | | PCB |
| Work Position | | Any position |
| Weight | | 2.55g |

COIL DATA

| | |
|---------------------|-------|
| Norminal Coil Power | 0.25W |
|---------------------|-------|

Coil Version

Vd.c.

| Coi Voltage | | 25°C | | | | -65°C ~ 125°C | |
|-------------|-----|----------------------|-------------------|-----------------------|--------------------------|----------------------|-----------------------|
| Nominal | Max | Pick-up Voltage max. | Hold Voltage max. | Drop-out Voltage min. | Coil Resistance (1±10%)Ω | Pick-up Voltage max. | Drop-out Voltage min. |
| 007 | 8.4 | 4.8 | 2.4 | 0.34 | 230 | 5.5 | 0.22 |

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

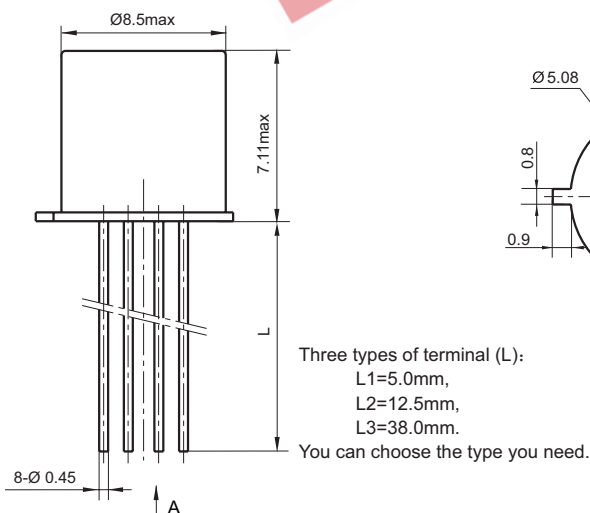
ORDERING INFORMATION

| | | | | | | |
|------------------|---------|------------|----------|------|----|---|
| | | HF9112 | | -007 | 01 | I |
| Type | | | | | | |
| Coil Voltage | 7Vd.c. | | | | | |
| Terminals Length | 01: 5mm | 02: 12.5mm | 03: 38mm | | | |
| Ambient Grade | I, II | | | | | |

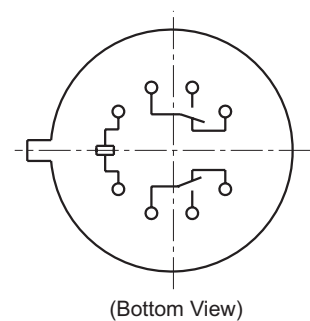
OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit: mm

Outline Dimensions



Wiring Diagram



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.

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