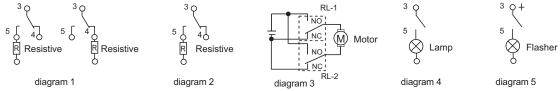
| Load voltage | Load type | | Load current A | | | On/Off ratio | | Electrical | Contact | Land ordera |
|-----------------|--------------------|-------|----------------|----|-------|--------------|-------|--------------------------------|---------------------|------------------------|
| | | | 1C | | 1A | On | Off | endurance | Contact material | Load wiring diagram 4) |
| | | | NO | NC | NO | S | S | OPS | material | diagram |
| 13.5VDC | Lamp ¹⁾ | Make | 90 2) | | 90 2) | 1 | 9 | 1×10 ⁵ (at 85°C) | AgSnO ₂ | See diagram 4 |
| | | Break | 8.8 | | 8.8 | | | | | |
| | Lamp ¹⁾ | Make | 6×21W | | 6×21W | 1 | 6 | 1×10 ⁵ | AgSnO ₂ | See diagram 4 |
| | | Break | | | | | | | | |
| | Flasher | Make | 3×21W | | 3×21W | 0.365 | 0.365 | 2×10 ⁶ | Special AgSnO₂ | See diagram 5 |
| | | Break | | | | | | | | |

¹⁾ When it is utilized in flasher, a special AgSnO₂ contact material should be used and the customer special code should be (170) as a suffix. Please connect by the polarity according to the diagram below.

- 2) Corresponds to the peak inrush current on initial actuation (cold filament).
- 3) Corresponds to the peak inrush current on initial actuation (motor).
- 4) The load wiring diagrams are listed below (Ratings of NO, NC are tested based on different samples seperately):



5) When the load voltage is at 24VDC or higher, or the applications conditions are different from the table above, please submit the detailed application conditions to Hongfa to get more support.

COIL DATA at 23°C

| Nominal voltage 1) | V | voltage DC ax. | Drop-out voltage VDC | Coil resistance | Power consumption W | Max. allowable overdrive voltage ²⁾ VDC | |
|--------------------|---------|----------------------|----------------------------|-----------------|---------------------|--|---------|
| VDC | at 23°C | at 85°C | min. | x(1±10%)Ω | | at 23°C | at 85°C |
| 6 | 3.6 | 4.5 | 0.5 | 60 | 0.6 | 9 | 8 |
| 9 | 5.4 | 6.8 | 0.7 | 135 | 0.6 | 13.5 | 12 |
| 10 | 6.3 | 7.9 | 0.8 | 180 | 0.6 | 15 | 13.3 |
| 12 | 7.3 | 9.0 | 1.0 | 240 | 0.6 | 18 | 16 |

- 1) Other types on request.
- 2) Max. allowable overdrive voltage is stated with no load applied.

ORDERING INFORMATION -1Z 012 HFKW / **Type** 006: 6VDC 009: 9VDC Coil voltage 010: 10VDC 012: 12VDC **Contact arrangement** 1H: 1 Form A 1Z: 1 Form C **Contact material** W: AgSnO2 Construction 1) L: Flux proofed (Reflow soldering version) Nil: Plastic sealed 2) Packing style C: Tape and reel packing Nil: Tube packing Special code³⁾ XXX: Customer special requirement Nil: Standard

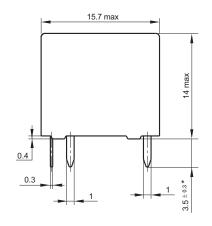
Notes: 1) The structure of HFKW/□□□-1ZW-L□ is only flux proof, the open vent hole is at the bottom of the base.

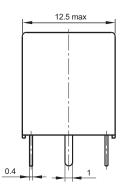
- Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 3) The customer special requirement express as special code after evaluating by Hongfa. e.g. (170) stands for flasher load.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

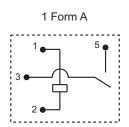
Unit: mm

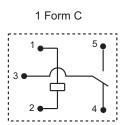
Outline Dimensions(1 Form A / 1 Form C)



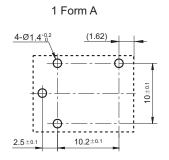


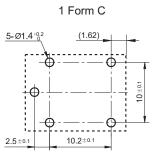
PCB Layout (Bottom view)





Wiring Diagram (Bottom view)

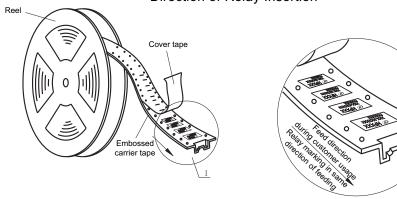




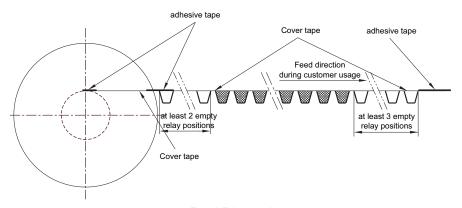
Remark: * The additional tin top is max. 1mm.

4:1

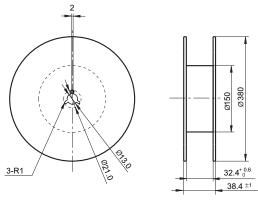
Direction of Relay Insertion



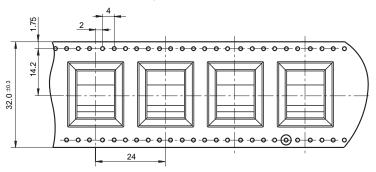
Direction of Relay Insertion



Reel Dimensions

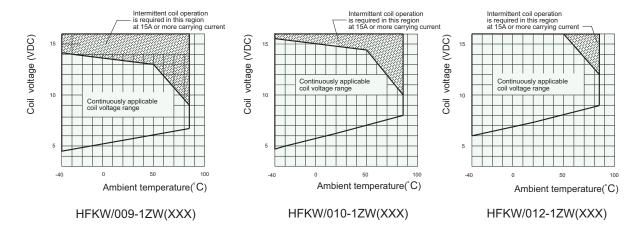


Tape Dimensions

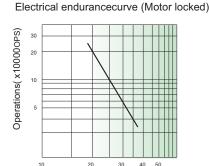


CHARACTERISTIC CURVES

1. Coil operating voltage range (NO contacts, at 13.5VDC)



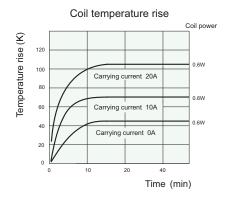
2. Load curve (NO contacts, at 23°C)



HFKW/012-1ZW(XXX)

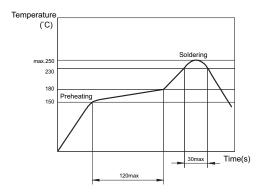
Test conditions: 0.2s ON, 2s OFF

Switching current (A)



HFKW/012-1ZW(XXX)

3. Reflow soldering, temperature on PCB board. (Recommended soldering temperature, only for reflow soldering version)



Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. In case there is specific criterion (such as mission profile, technical specification, PPAP etc.) checked and agreed by and between customer and Hongfa, this specific criterion should be taken as standard regarding any requirement on Hongfa product.

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.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.