



Signal & High Frequency & Reed Relays

全球产品系列最齐全的信号继电器供应商



About Hongfa

Hongfa provides multiple products, such as relays, low voltage devices, high and low voltage panels, connectors, capacitors, precision parts and automation equipment.

\$ 2.2 B+



2023
Sales

30+



Subsidiaries

15,000+



Global
Employees

120+



Countries
Exported To

**Hongfa is the leader in the global relay industry,
founded in 1984.**

Product Portfolio

Relays



Power relays



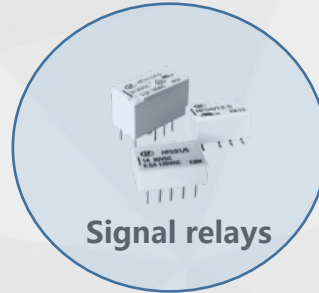
Latching relays



Automotive relays and modules



HVDC relays
New energy relays



Signal relays



Industrial relays and sockets



Force-guided relays

Electric Switches



Low-voltage devices



L/H-voltage Complete Equipment

Connectors



Power connectors



RF connectors

Capacitors



Automatic Equipment



Automation production line equipment



Industrial robot

New Product Category



Vacuum interrupters



Vacuum pumps



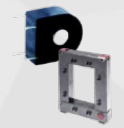
Electronic modules



Snap-action switches



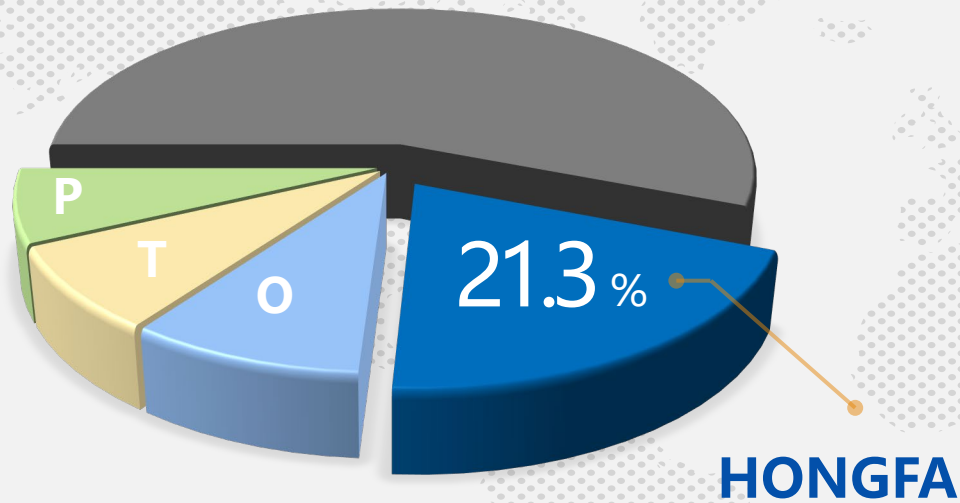
Oxygen sensors



Current transformers

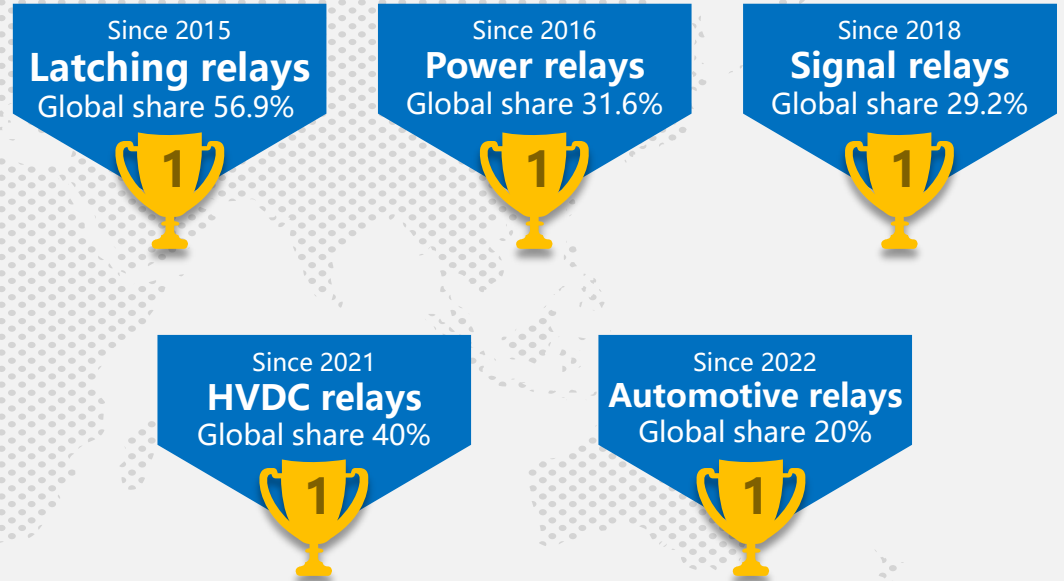
Market Presence

No. 1 Global Relay Manufacturer



Hongfa relay revenue of \$1.5B or 21.3%
Hongfa delivered over 2.7 Billion pieces in 2023

Multiple sub sectors have become industry leaders

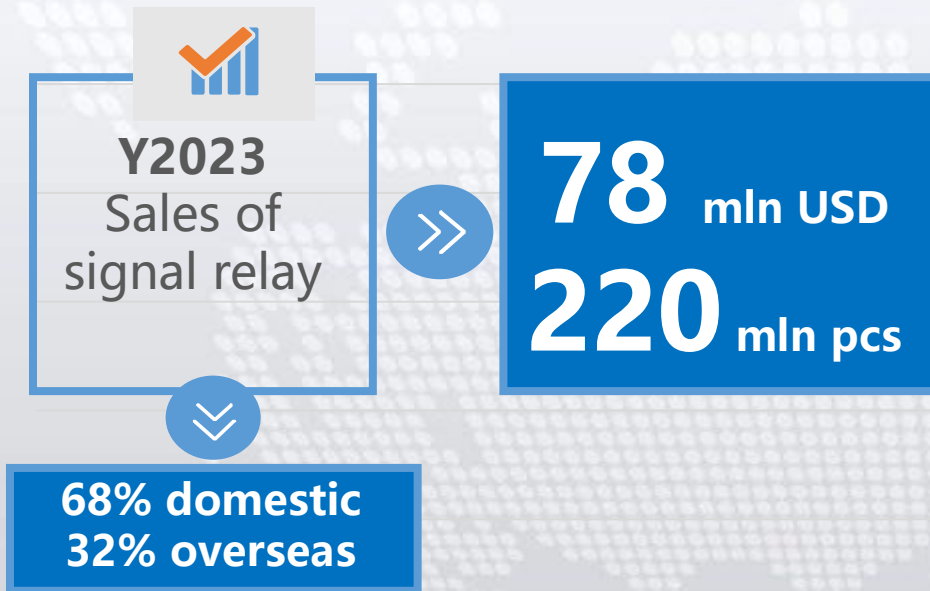




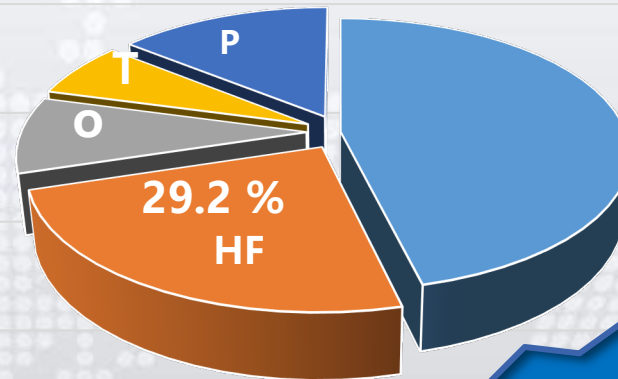
Overview of Hongfa Signal Electronics

Hongfa Group
2.2 billion USD

- Offers the **most complete** series of signal relays
- The **only supplier** of the **5th generation signal relay** worldwide
- Complete product portfolio of **high-frequency relays** (1GHz~8GHz) and **high voltage reed relays** (1000VDC 300mA~8500VDC 5mA)
- Manufacturing lead time: **4 weeks**



Y2023 Global Signal Relay Market





Production Base



Zhongjiang Industrial Park
114,200 square meters
Power Relays



Xi'an Factory
22,600 square meters
Power Relays



Haicang Industrial Park 198,000 square meters

Signal relay
R & D and
production base

Existing plant floor Up to **50000** square meters

20 automatic production lines



Bases in western regions

Bases in eastern regions

Bases in Xiamen and Zhangzhou



Zhoushan Industrial Park (in construction)
220,200 square meters
New energy relays



Zhuji Factory
69,700 square meters
Capacitors



Ningbo Factory
74,500 square meters
Industrial relays



Zhangzhou Industrial Park 15,2700 square meters
Power relays and injection mould



Donglin Industrial Park
156,000 square meters
Automotive relays, low-voltage devices and precision parts

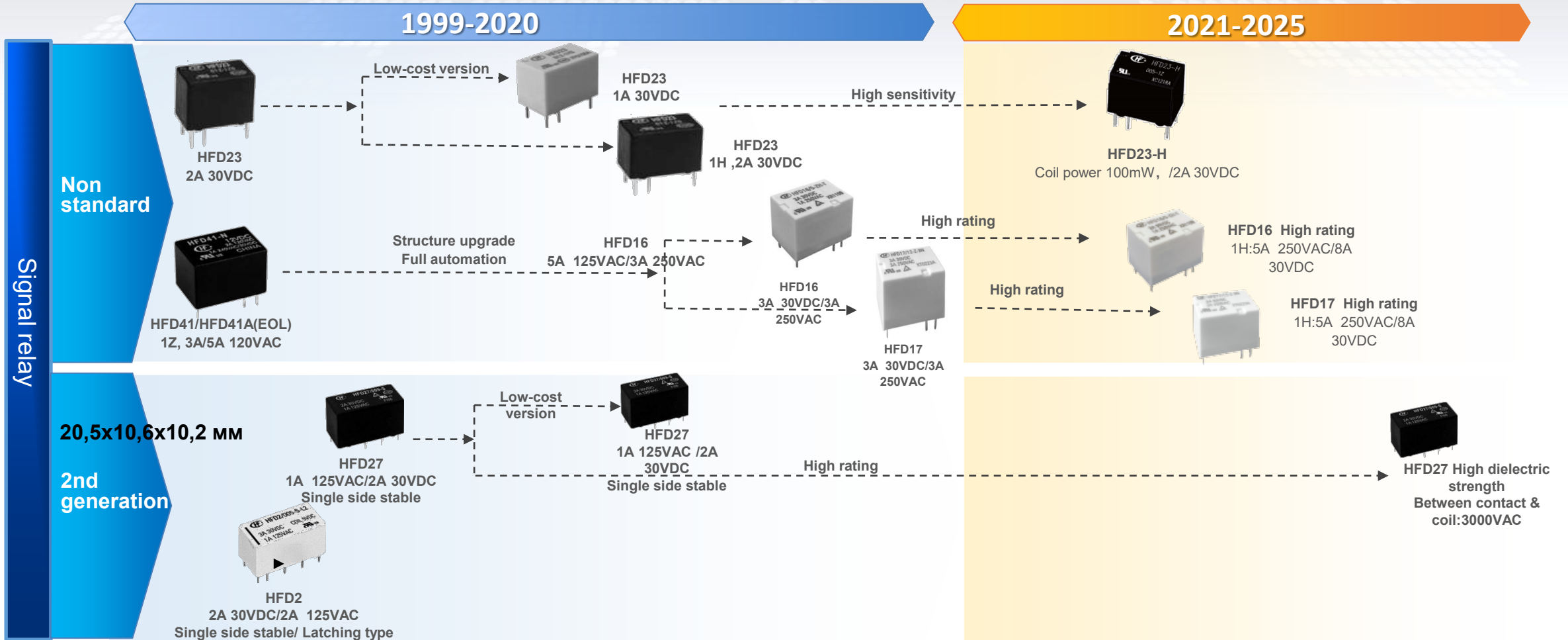


Sunban Industrial Park
74,700 square meters
Power Relays

(Data Updated Till June 2022)

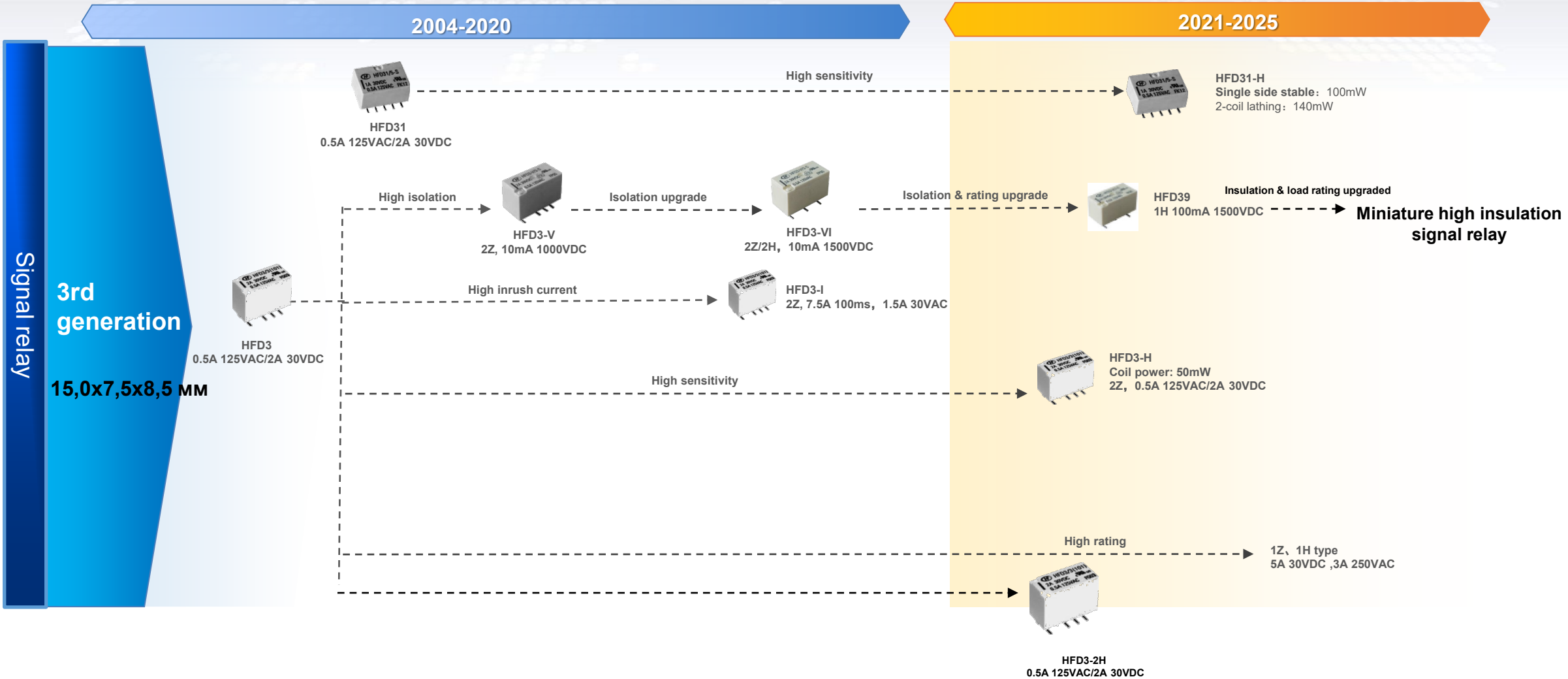


Our products





Our products





Our products

2004-2020

2021-2025

Signal relay

4th generation

10,0x6,5x5,65 mm



HFD4
1A 30VDC, 0.3A 125VAC



HFD42
2Z, 2A 30VDC, 0.5A 125VAC

High inrush current



HFD4-I
2Z, 3.5A 100ms 1A 30VAC

High dielectric strength



HFD4-V
Between open contacts:
1200VAC, 10mA 600VDC

High sensitivity



HFD4-H
Coil power 100mW
1A 30VDC, 0.3A 125VAC

Quick action



Subminiature high insulation signal relay
Dielectric strength between coil & contacts ≥ 2000 VAC, 1min
Dielectric strength between coil open contacts ≥ 2000 VAC, 1min

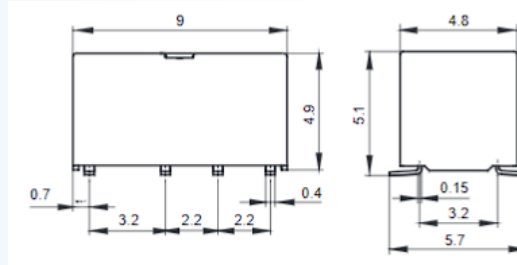
High sensitivity



HFD42-H
Coil power 100mW
1A 30VDC, 0.3A 125VAC

5th generation

9,0x4,8x4,9 mm



HFD5
Coil power 50mW
1A 30VDC, 0.3A 125VAC

High sensitivity



HFD5-H
Coil power 30mW
1A 30VDC, 0.3A 125VAC

Quick action



HFD5-K
Operation time
including bouncing ≤ 1 ms

High current



HFD5-I
Coil power 50mW,
2A 30VDC

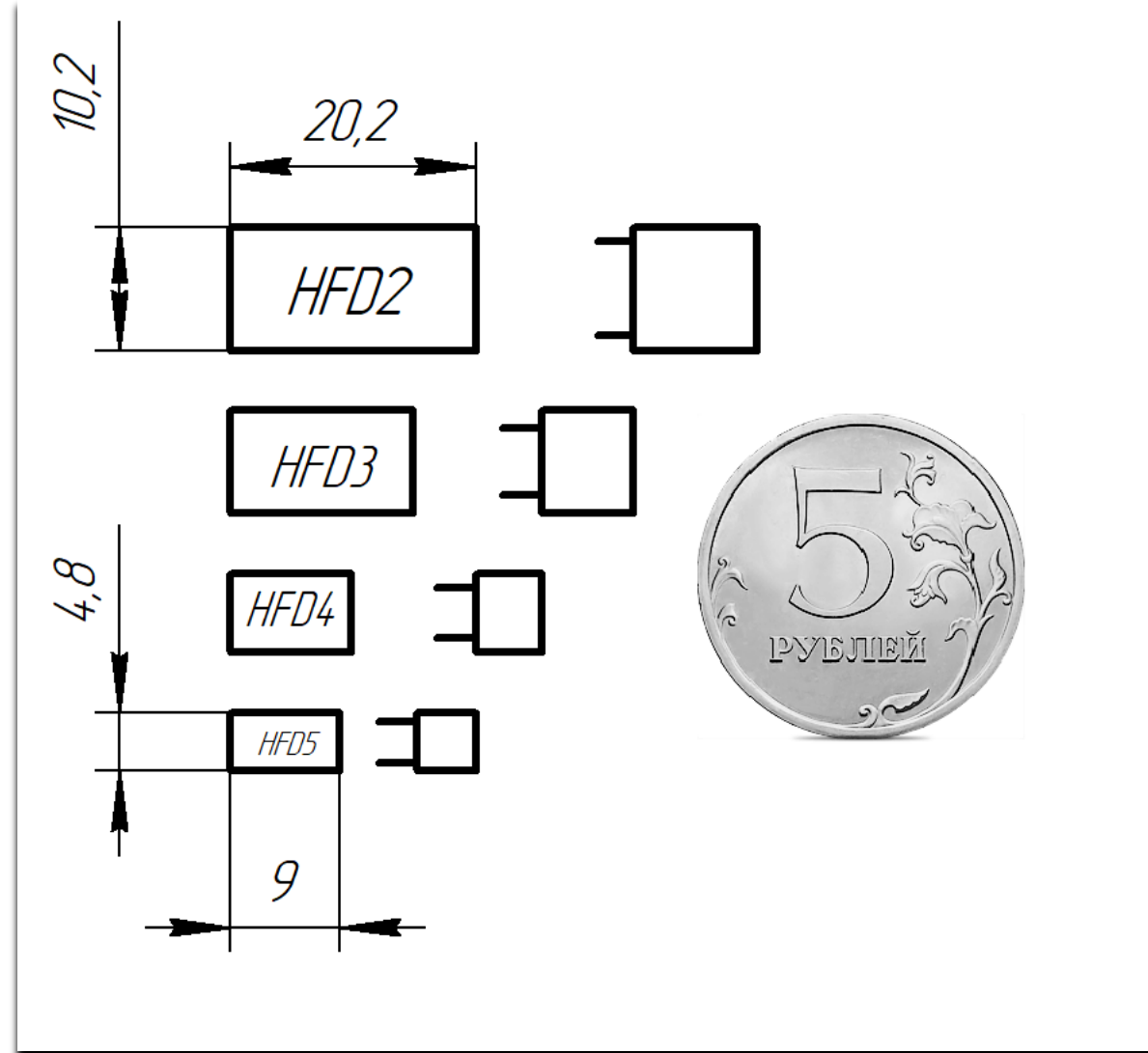
High temperature type



HFD5-T
HFD5 high temperature type
Working temp up to 125°C

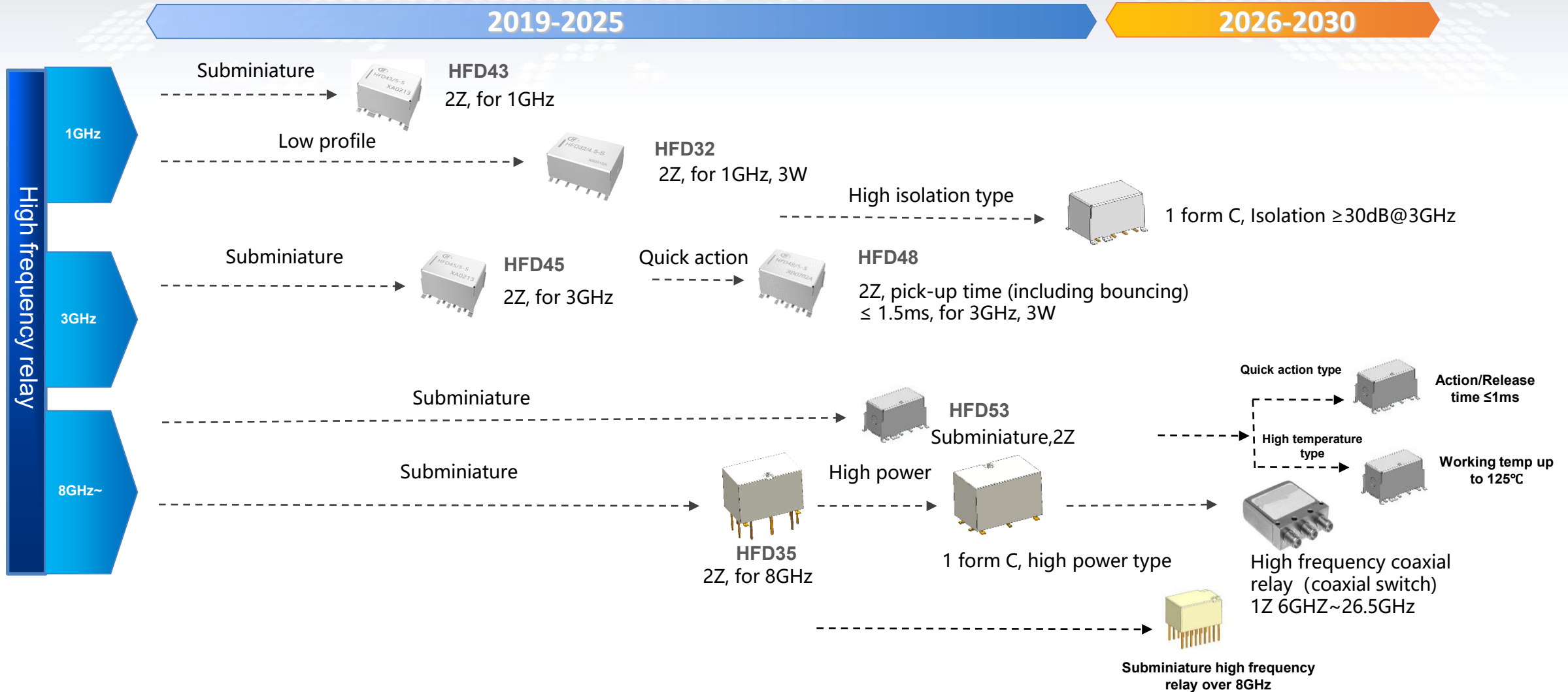


Our products



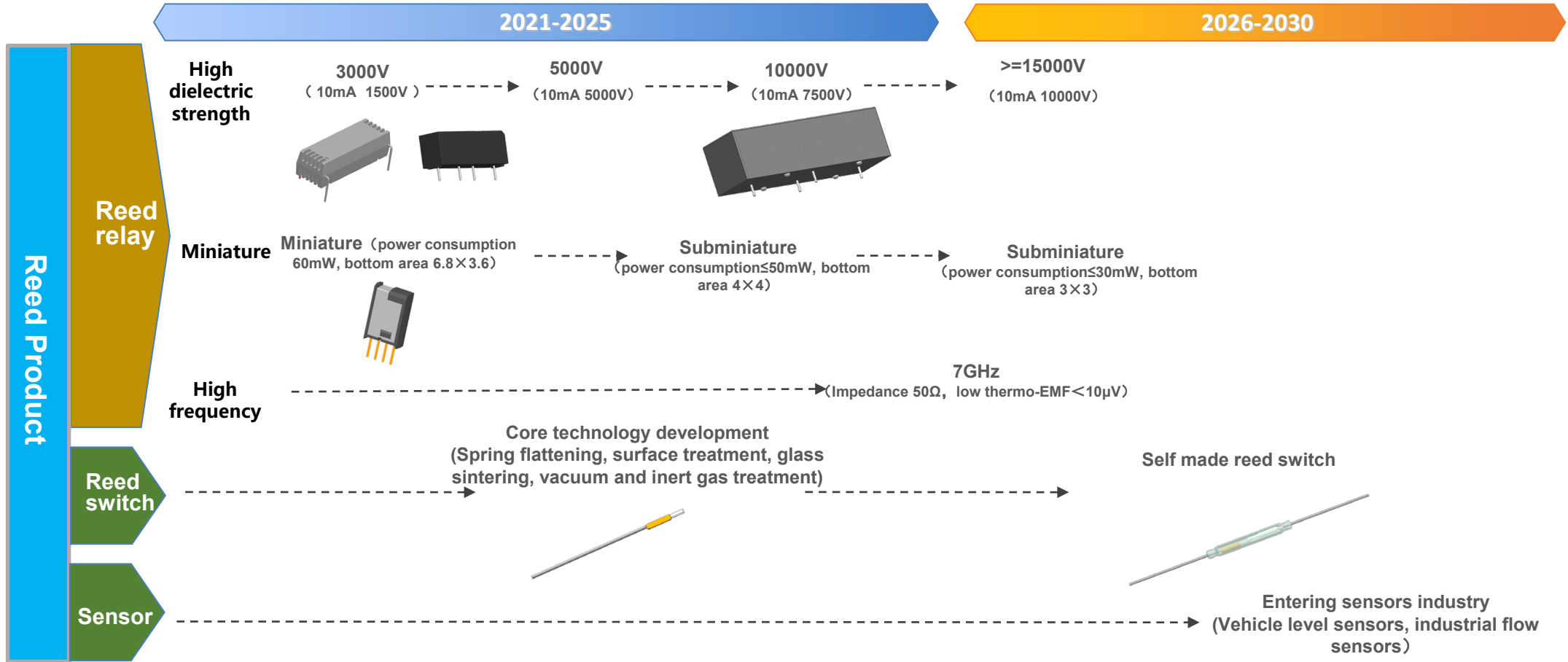


Our products



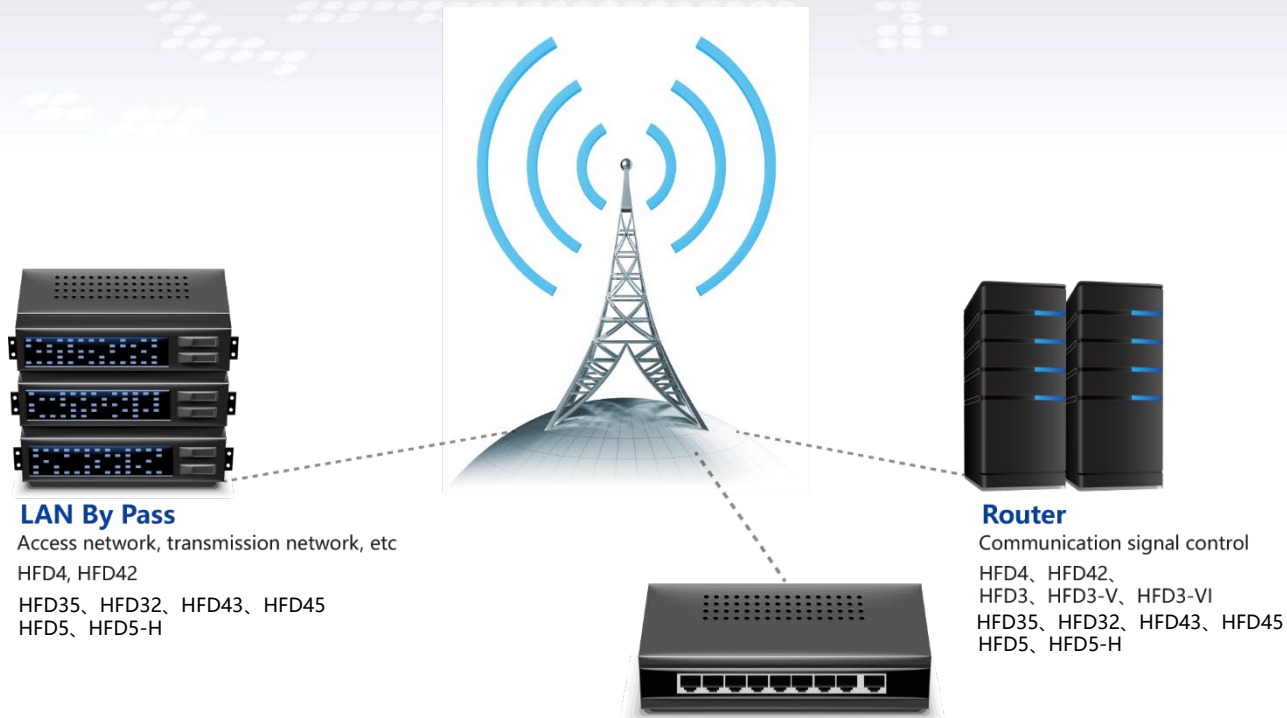


Our products





Communication Networks



LAN By Pass

Access network, transmission network, etc

HFD4, HFD42
HFD35, HFD32, HFD43, HFD45
HFD5, HFD5-H

Router

Communication signal control

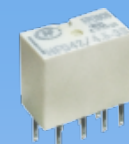
HFD4, HFD42,
HFD3, HFD3-V, HFD3-VI
HFD35, HFD32, HFD43, HFD45
HFD5, HFD5-H

Switch

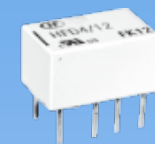
Communication signal control

HFD4, HFD42, HFD3, HFD3-V, HFD3-VI
HFD5, HFD5-H, HFD32, HFD43, HFD45

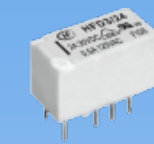
Recommended products



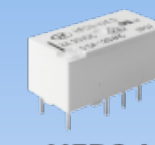
HFD42
10.6x5.7x9.0(mm)
2A



HFD4
10.0x6.5x5.4(mm)
2A



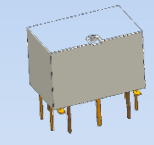
HFD3
15.0x7.5x9.0(mm)
3A



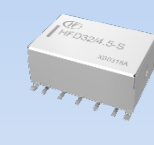
HFD3-V
15.0x7.5x9.4(mm)
2A



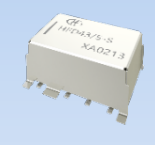
HFD3-VI
15.0 x 7.5 x 9.2(mm)
4A



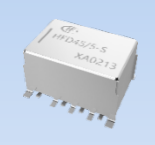
HFD35



HFD32



HFD43



HFD45



HFD5



HFD5-H



HFD53



HFD48



SPC exchange

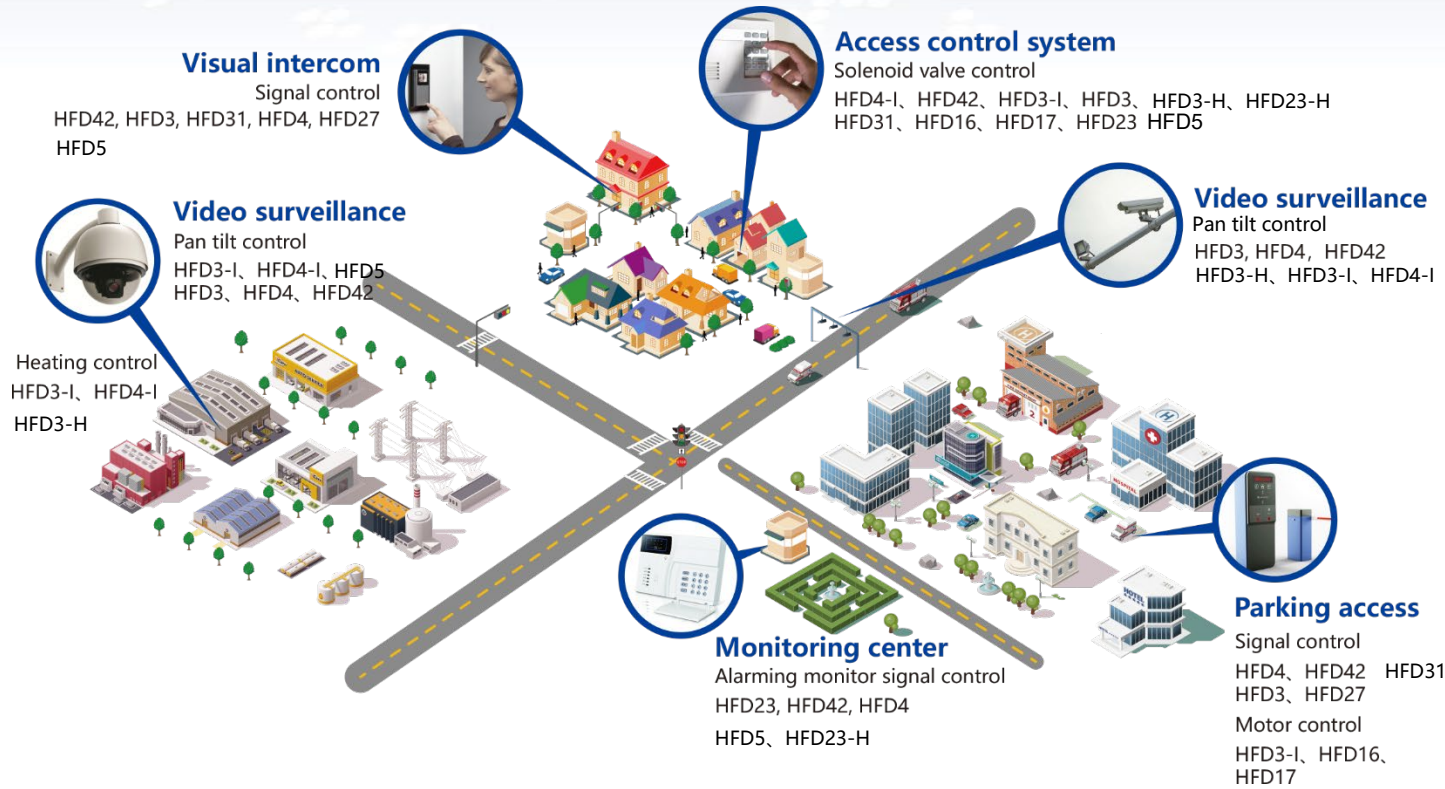


Communication base station

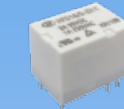




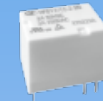
Security System



Recommended products



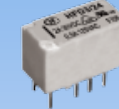
HFD16
15.7x10.6x11.8(mm)
5A



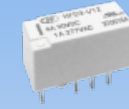
HFD17
15.7x10.6x11.8(mm)
5A



HFD23
12.5x7.5x10.0(mm)
2A



HFD3
15.0x7.5x9.0(mm)
3A



HFD3-I
15.0 x 7.5 x 9.0(mm)
4A



HFD31
14.0 x 9.0 x 5.0(mm)
2A



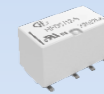
HFD4
10.0x6.5x5.4(mm)
2A



HFD4-I
10.0x6.5x5.65(mm)
3A



HFD42
10.6x5.7x9.0(mm)
2A



HFD5



HFD3-H



HFD23-H



Fire Alarm System



Emergency intercom

Emergency intercom
HFD27, HFD2, HFD3,
HFD4, HFD42
HFD5, HFD3-H



Smoke alarm

Interface signal control
HFD16, HFD17, HFD27,
HFD2, HFD3
HFD3-H, HFD5



Fire alarm

Interface signal control
HFD16, HFD17, HFD27,
HFD2, HFD3
HFD3-H, HFD5



Emergency lighting

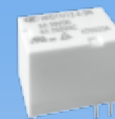
Interface signal control
HFD16, HFD17, HFD3,
HFD3-I, HFD3-V
HFD3-H

Recommended products



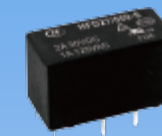
HFD16

15.7x10.6x11.8(mm)
5A



HFD17

15.7x10.6x12(mm)
5A



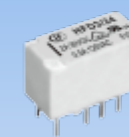
HFD27

20.2x10.0x11.5(mm)
2A



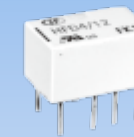
HFD2

20.2x10.2x10.6(mm)
3A



HFD3

15.0x7.5x9.0(mm)
3A



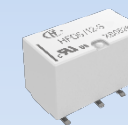
HFD4

10.0x8.5x5.4(mm)
2A

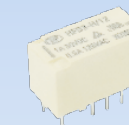


HFD42

10.6x5.7x9.0(mm)
2A



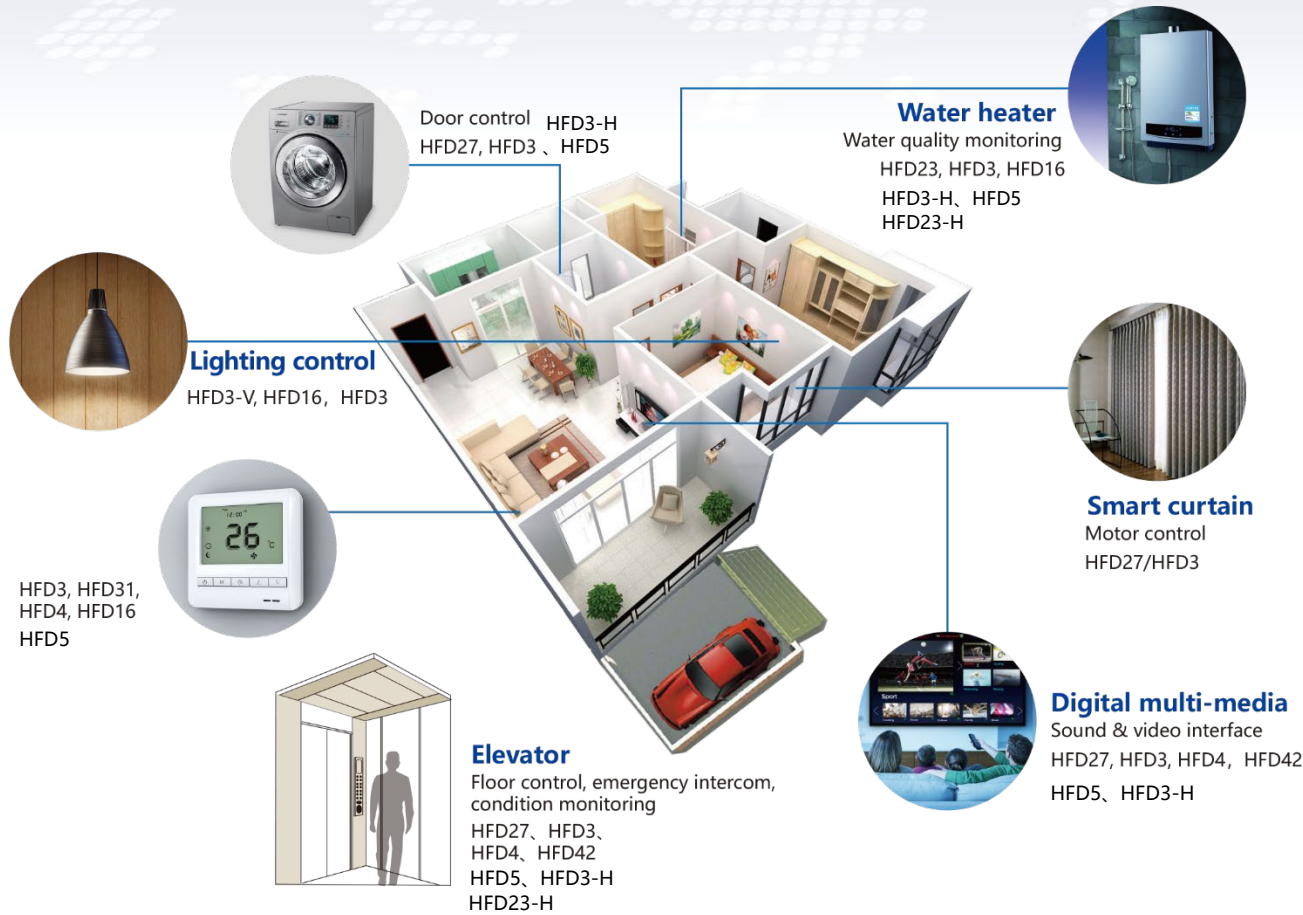
HFD5



HFD3-H



Intelligent building



Recommended products

HFD16 15.7x10.6x11.8(mm) 5A	HFD17 15.7x10.6x11.8(mm) 5A	HFD23 12.5x7.5x10.0(mm) 2A	HFD27 20.2x10.0x11.5(mm) 2A
HFD3 15.0x7.5x9.0(mm) 3A	HFD3-I 15.0 x 7.5 x 9.0(mm) 4A	HFD3-VI 15.0 x 7.5 x 9.2(mm) 2A	HFD3-V 15.0x7.5x9.4(mm) 2A
HFD31 14.0x9.0x5.0(mm) 2A	HFD4 10.0x6.5x5.4(mm) 2A	HFD4-I 10.0x6.5x5.65(mm) 3A	HFD42 10.6x5.7x9.0(mm) 2A
HFD3-H	HFD5	HFD23-H	HFD5-H



Automation Control and Testing



Robot and industrial computer
Motherboard signal switching and transmission
HFD3, HFD4, HFD42, HFD5



Instruments and Apparatuses
Signal transmission, acquisition and switching

HFD2, HFD3, HFD3-V,
HFD4, HFD4-V, HFD42
HFD43, HFD45, HFD5, HFD5-H



PLC

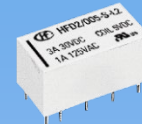
I/O signal transmission switching
HFD3, HFD3-I, HFD4, HFD4-I, HFD42
HFD5, HFD5-H



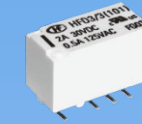
ATE

Signal transmission and channel switching
HFD3, HFD3-V, HFD3-VI,
HFD31, HFD4, HFD4-V, HFD42
HFD35, HFD48, HFD43, HFD45
HFD5, HFD5-H
HFD39, HFD4-K
HFD48, HFD53
HR1-V, HR1-U, HR12-V
HF7101

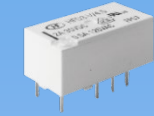
Recommended products



HFD2
20.2 x 10.2 x 10.6(mm)
3A



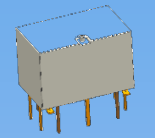
HFD3
15.0x7.5x9.0(mm)
2A



HFD3-V
15.0 x 7.5 x 9.4(mm)
2A



HFD31
14.0 x 9.0 x 5.0(mm)
2A



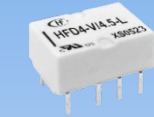
HFD35



HFD3-VI
15.0 x 7.5 x 9.2(mm)
2A



HFD4
10.0x6.5x5.4(mm)
2A



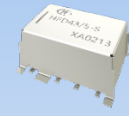
HFD4-V
10.0 x 6.5 x 5.65(mm)
1A



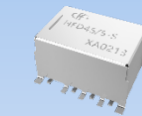
HFD42
10.6x5.7x9.0(mm)
2A



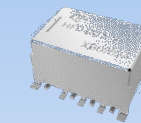
HFD3-H



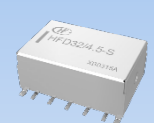
HFD43



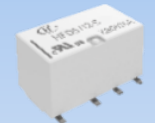
HFD45



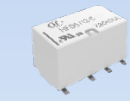
HFD48



HFD32



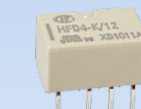
HFD5



HFD5-H



HFD39



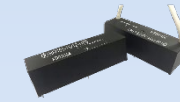
HFD4-K



HFD53



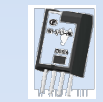
HR1-V



HF7101



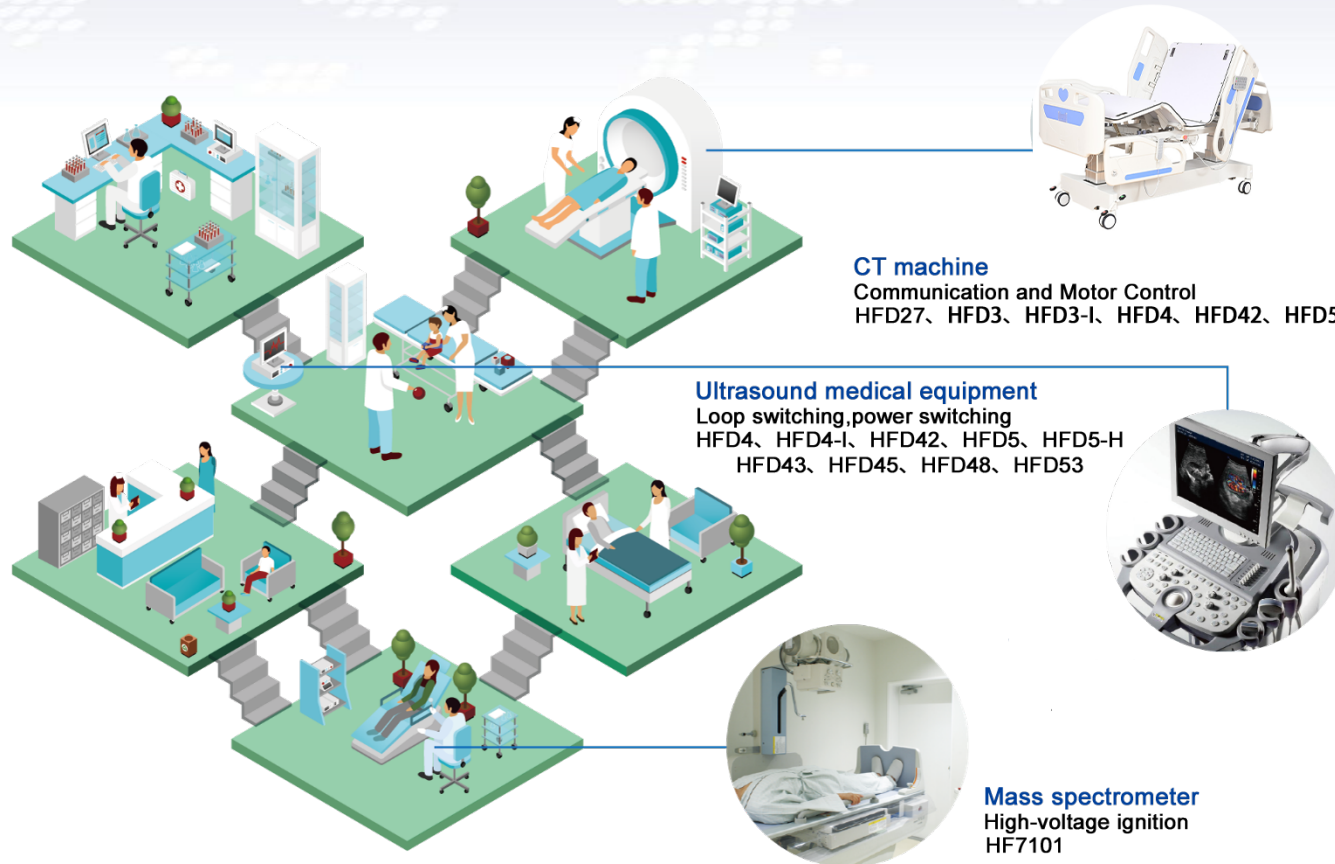
HR12-V



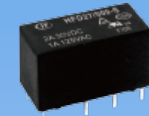
HR1-U



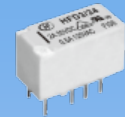
Medical



Recommended products



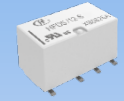
HFD27
20.2 x 10.0 x 11.5 (mm)
2A



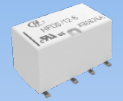
HFD3
15.0 x 7.5 x 9.0 (mm)
3A



HFD3-I
15.0 x 7.5 x 9.0 (mm)
4A



HFD5



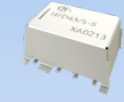
HFD5-H



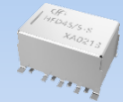
HFD4
10.0 x 6.5 x 5.4 (mm)
2A



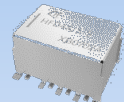
HFD42
10.6 x 5.7 x 9.0 (mm)
7A



HFD43



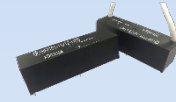
HFD45



HFD48



HFD53



HF7101



Energy Utilization



Industrial power supply

Power input interface control

HFD16、HFD17、HFD23、HFD3-H

HFD23-H、HFD3、HFD3-H、HR12-V、HR1-V、HF7101



Photovoltaic Inverter

Insulation monitoring, energy release, alarm output

HFD3-V、HFD3-VI、HFD4-V、
HFD4、HFD42

HFD39、HFD5、HR1-V、HR12-V



Energy storage:

Insulation test, cell balance, alarm output

HFD3-VI、HFD39、HFD42、HR1-V、HR12-V

HFD3、HFD4、HFD5



Four meters combination



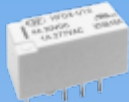

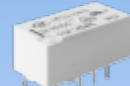

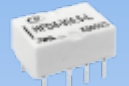

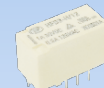






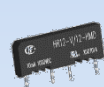
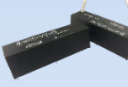
Data transmission

HFD3、HFD31、
HFD4、HFD42
HFD5

Protective relaying

HFD27、HFD4、HR1-V、
HF7101

Recommended products

 HFD17 15.7x10.6x11.8(mm) 5A	 HFD16 15.7x10.6x11.8(mm) 5A	 HFD3-I 15.0 x 7.5 x 9.0(mm) 4A	 HFD3-VI 15.0 x 7.5 x 9.2(mm) 2A	
 HFD3-V 15.0x7.5x9.4(mm) 2A	 HFD4 10.0x6.5x5.4(mm) 2A	 HFD4-V 10.0 x 6.5 x 5.65(mm) 1A	 HFD42 10.6x5.7x9.0(mm) 2A	
 HFD3-H	 HFD5	 HFD39	 HFD27	
 HFD23-H	 HFD3	 HR1-V	 HR12-V	 HF7101



Vehicle application



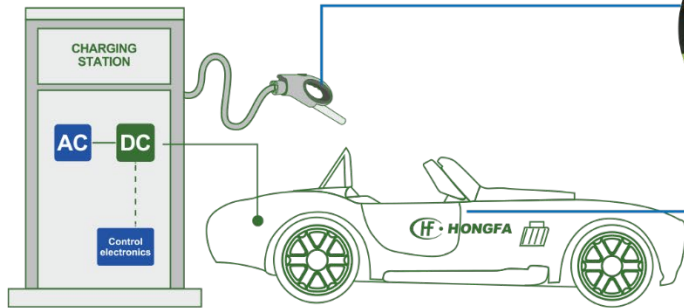
Oil and gas conversion

Solenoid valve control
HFD16, HFD17, HFD27, HFD3, HFD3-I



Charging Piles, OBC

Charger motor control
HFD3, HFD3-I, HFD3-V,
HFD3-VI, HFD4-V
HFD39, HR1-V, HR12-V



Navigation, entertainment system

Communication, audio, video signal control
HFD4, HFD42, HFD5
HFD43, HFD45, HFD48, HFD53



BMS

High voltage relay coil control,
Insulation detection, fan control, alarm control
HFD3, HFD3-I, HFD3-V,
HFD3-VI, HFD4, HFD4-V
HFD39, HFD3-H, HR1-V, HR12-V



T-Box

Communication signal transmission,
audio control
HFD3, HFD4, HFD42, HFD5

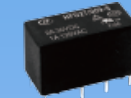
Recommended products



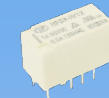
HFD16
15.7x10.6x11.8(mm)
5A



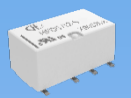
HFD17
15.7x10.6x11.8(mm)
5A



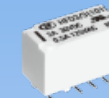
HFD27
20.2x10.0x11.5(mm)
2A



HFD3-H



HFD5



HFD3
15.0x7.5x9.0(mm)
3A



HFD3-I
15.0 x 7.5 x 9.0(mm)
4A



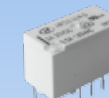
HFD3-VI
15.0x7.5x9.2(mm)
4A



HFD39



HR1-V



HFD3-V
15.0x7.5x9.4(mm)
2A



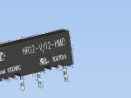
HFD4
10.0x6.5x5.4(mm)
2A



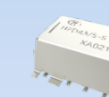
HFD42
10.6x5.7x9.0(mm)
2A



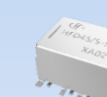
HFD53



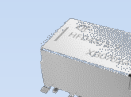
HR12-V



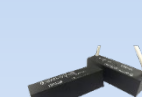
HFD43



HFD45



HFD48



HF7101

Hongfa Technology, for a Better Life

Thank You

