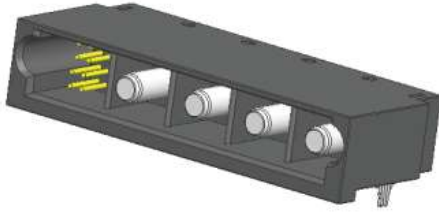


# HFLPR2-1 plug series

# POWER CONNECTOR



## Features

- Small size, high current-carrying capacity of single pin, wire-to-board, anti-wrong-insertion, and reliable contact
- Soft plugging and unplugging, low contact resistance, high current-carrying density, etc
- Mainly used in AC charging module AC side of AC charging pile, also applicable to power supply, industrial equipment, power system module, etc.
- Mating With: HFLPR2-1 socket series power connector

RoHS compliant

## ELECTRICAL DATA

Rated Voltage	1000VDC/380VAC
Rated current	Power: 85A; Signal: 3A
Voltage Proof	Power: 3000VAC; Signal: 1000VAC
Contact Resistance	Power: $\leq 0.4\text{m}\Omega$ ; Signal: $12\text{m}\Omega$
Insulation Resistance	$\geq 3000\text{M}\Omega$

Notes: 1) The data shown above are initial values.

## STORAGE REQUIREMENT

Environment temperature	$-10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$
Humidity	80% Max
Ambient gas	no acidity, no alkalescence and other corrosive gas
Stockpile period	Doesn't exceed one year from production date

Notes: 1) The data shown above are initial values.

## CHARACTERISTICS

Temperature Range	$-55^{\circ}\text{C}$ ~ $125^{\circ}\text{C}$
Salt Mist	48h
Humidity Temperature	$25^{\circ}\text{C}$ to $40^{\circ}\text{C}$ , 10 times <sup>3)</sup>
Temperature life	432 hours at $125^{\circ}\text{C}(\pm 5^{\circ}\text{C})$ <sup>3)</sup>
Thermal Shock	$-40^{\circ}\text{C}(30\text{ min})$ , $+125^{\circ}\text{C}(30\text{ min})$ , 5 times <sup>3)</sup>
Mechanical Shock	Acceleration of 30g, half sine wave, lasting 11 ms, $\pm X$ , $\pm Y$ , $\pm Z$ direction 3 times each, the current instantaneous break time is less than $1\mu\text{s}$ <sup>2)</sup>
Vibration	Frequency 10Hz~55Hz~10Hz, displacement amplitude 0.75mm, each vertical direction lasts for 55 min, the current instantaneous break time is less than $1\mu\text{s}$
Protection Grade	/
Quality	Approx. 45.4g
Marking Mode	Laser etching
Durability	500 Times Min
Termination	PCB

Notes: 1) The data shown above are initial values.

2) Meet the parts without damage, Insulation resistance and withstand voltage meet the requirements of electrical performance parameters.

3) Meet the parts without damage, withstand voltage meet the requirements of electrical performance parameters.

## ORDERING INFORMATION

Type	HFLPR2-1	T	P	04	08	R	B	B	(XXX)
Type of Connector	T: Plug								
Type of Contact	P: Contact pin								
No. of Power Contact	04: Fully loaded with 4 Power Contacts								
No. of Signal Contact	08: Fully loaded with 8 Signal Contacts								
Structural Form	R: Right angle								
Power pin wiring method	B: PCB								
Signal pin wiring method	B: PCB								
Special code	XXX: Customer special requirement								



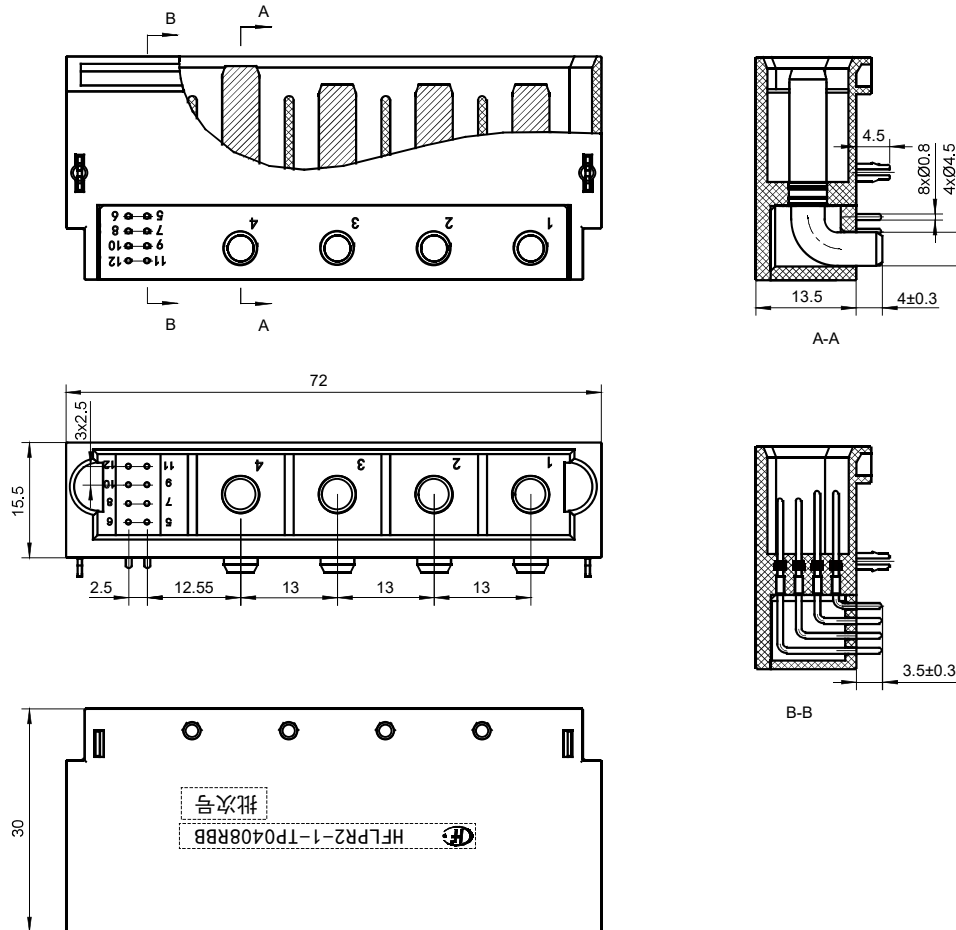
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 1.00

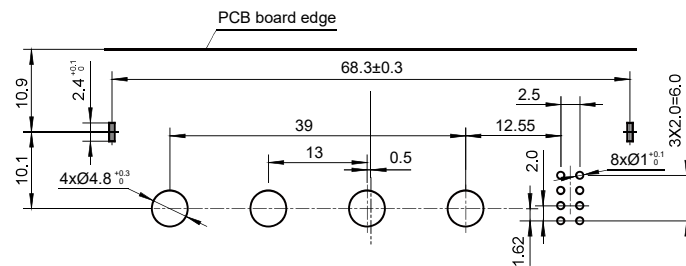
## OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

### Outline Dimensions



### PCB Layout (Bottom view)



### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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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