

HFLPR5 plug series

POWER CONNECTOR



Features

- The contact are made of copper alloys with high conductivity
- It has the characteristics of reliable connection, soft insertion, low contact resistance and high current carrying density
- The use of crown springs for contact ensures contact reliability
- Power distribution module for DC charging station, also suitable for industrial equipment electricity Source module
- Mating With: HFLPR5 socket series power connector

RoHS compliant

ELECTRICAL DATA

Rated Voltage	1000VAC	
Rated current	80A	
Voltage Proof	Normal	3000VAC
	After environmental test	3000VAC
	After temperature and humidity cycle	1000VAC
Contact Resistance	Normal	0.4mΩ Max
	After environmental test	0.8mΩ Max
Insulation Resistance	Normal	3000MΩ Min
	After environmental test	100MΩ Min
	Test voltage (DC)	500V±50V

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

STORAGE REQUIREMENT

Environment temperature	-10°C to +40°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	-40°C to 125°C
Salt Mist	48h
Steady damp-heat	Steady state damp heat effect with a temperature of 40°C and a relative humidity of 95% for 96h ²⁾
Temperature life	432 hours at 125±5°C ³⁾
Thermal Shock	-40°C(30 min), +125°C(30 min), 5 times ³⁾
Mechanical Shock	Acceleration of 30g, half sine wave, lasting 11 ms, ±X, ±Y, ±Z direction 3 times each, the current instantaneous break time is less than 1μs
Vibration	Frequency 10Hz ~ 500Hz ~ 10Hz, displacement amplitude 0.75mm,each vertical direction lasts for 55 min,the current instantaneous break time is less than 1μs
Protection Grade	/
Quality	Approx.23.7g
Marking Mode	Laser etching
Durability	500 Times Min
Termination	PCB

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

2) No physical damage, electrical and mechanical performance meets sequential tes

3) No physical damage, electrical and mechanical properties meet sequential testing.

ORDERING INFORMATION

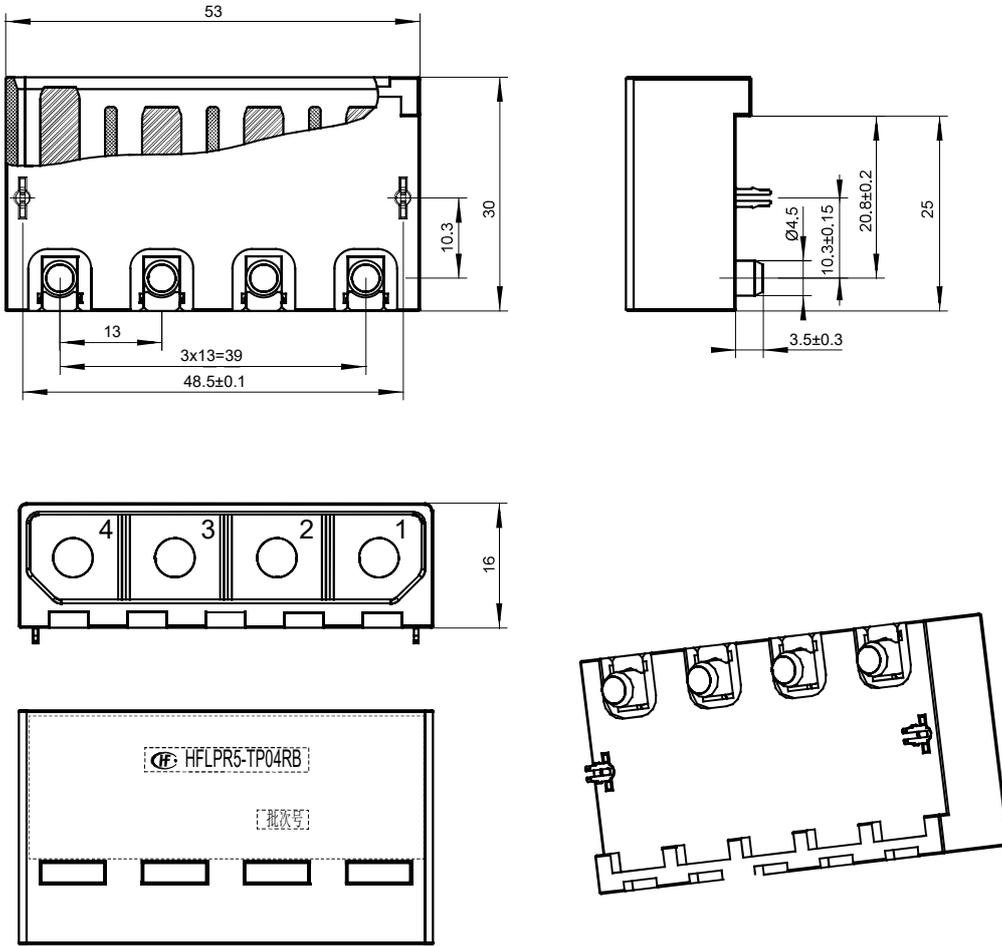
Type	HFLPR5-	T	P	04	R	B	G
Type of Connector	T: Plug						
Type of Contact	P: Contact pin						
No.of Power Contact	04: Fully loaded with 4 Power Contacts						
Structural Form	R: Right angle						
Power pin wiring method	B: Welding						
Contact plating	G: Gold plated NIL: Silver plated						



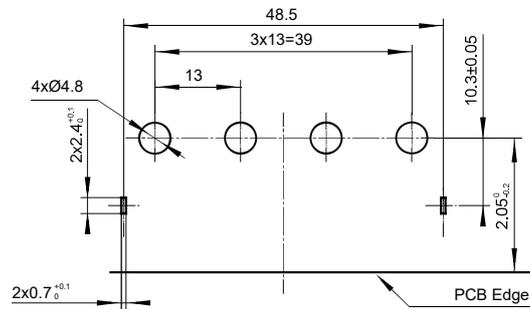
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 1.00

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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