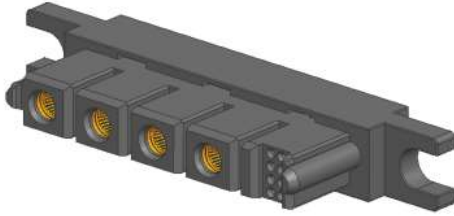


HFLPR2-1 socket series

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 plug 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: $\leq 0.4m\Omega$; Signal: $12m\Omega$ |
| Insulation Resistance | $\geq 3000M\Omega$ |

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

CHARACTERISTICS

| | |
|----------------------|--|
| Temperature Range | -55°C ~ 125°C |
| Salt Mist | 48h |
| Humidity Temperature | 25°C to 40°C, 10 times ³⁾ |
| Temperature life | 432 hours at 125°C($\pm 5^\circ\text{C}$) 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, $\pm X$, $\pm Y$, $\pm Z$ direction 3 times each, the current instantaneous break time is less than 1 μs ⁽²⁾ |
| 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 μs |
| Protection Grade | / |
| Quality | Approx.44.6g |
| 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.

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.

ORDERING INFORMATION

| | | | | | | | | | |
|--------------------------|---|---|---|----|----|---|---|---|-------|
| Type | HFLPR2-1- | Z | S | 04 | 08 | V | Y | B | (XXX) |
| Type of Connector | Z: Socket | | | | | | | | |
| Type of Contact | S: Receptacle | | | | | | | | |
| No. of Power Contact | 04: Fully loaded with 4 Power Contacts | | | | | | | | |
| No. of Signal Contact | 08: Fully loaded with 8 Signal Contacts | | | | | | | | |
| Structural Form | V: Vertical | | | | | | | | |
| Power pin wiring method | Y: Crimping cables | | | | | | | | |
| Signal pin wiring method | B: Welding | | | | | | | | |
| Special code | XXX: Customer special requirement | | | | | | | | |



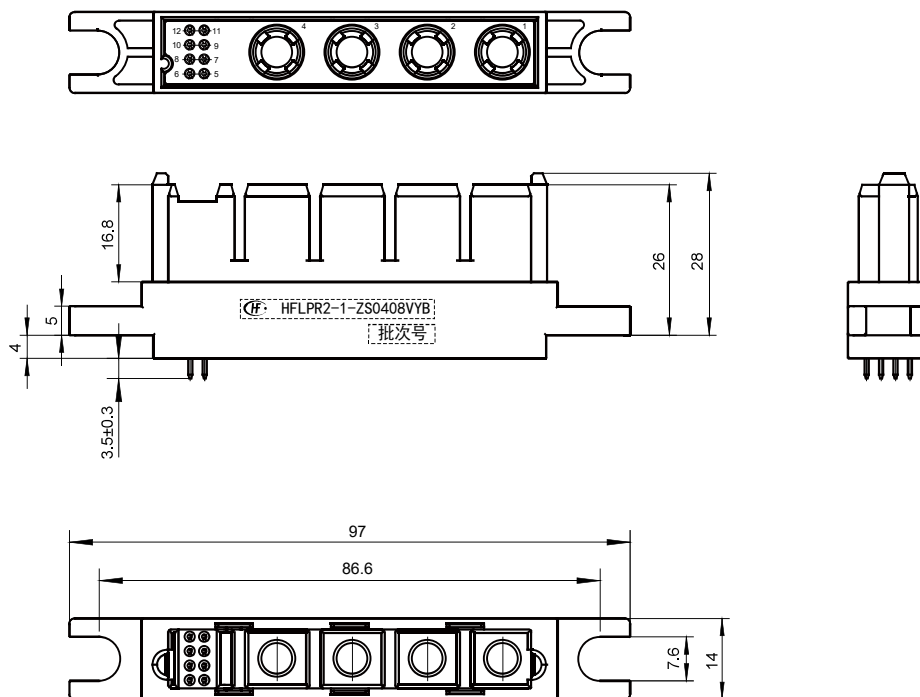
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 1.00

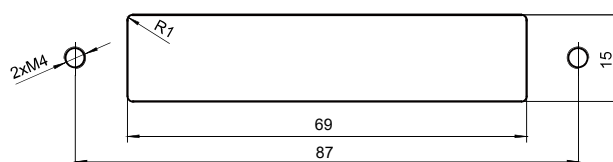
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



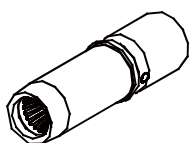
PCB Layout (Bottom view)



DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø5 Socket component



Assembly screw M4



SELECTION OF PARTS

| Serial No. | Part And Components Name | Material | Finishing |
|------------|--------------------------|----------|------------|
| 1 | Ø5 Socket | / | / |
| 2 | Assembly screw M4 | Steel | Galvanized |

PRECAUTIONS FOR USE

Adapter cable:

13mm² ~ 16mm² (Recommended: flame-retardant cable with Voltage Resistance of 1000VDC, Temperature Resistance of -40°C to 150°C and Conductor Cross Section of 16mm².
Example: ISO6722 DC1500V 150°C Single core unshielded 16mm², UL3961 AWG6).

Disclaimer

The specification is for reference only. 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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