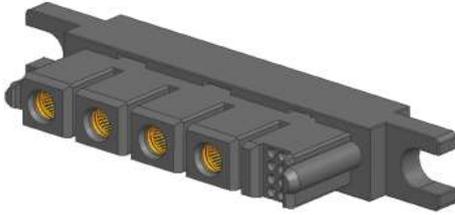


HFLPR2-1 socket series

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 Ω
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(±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 1 μ s 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 μ s
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								



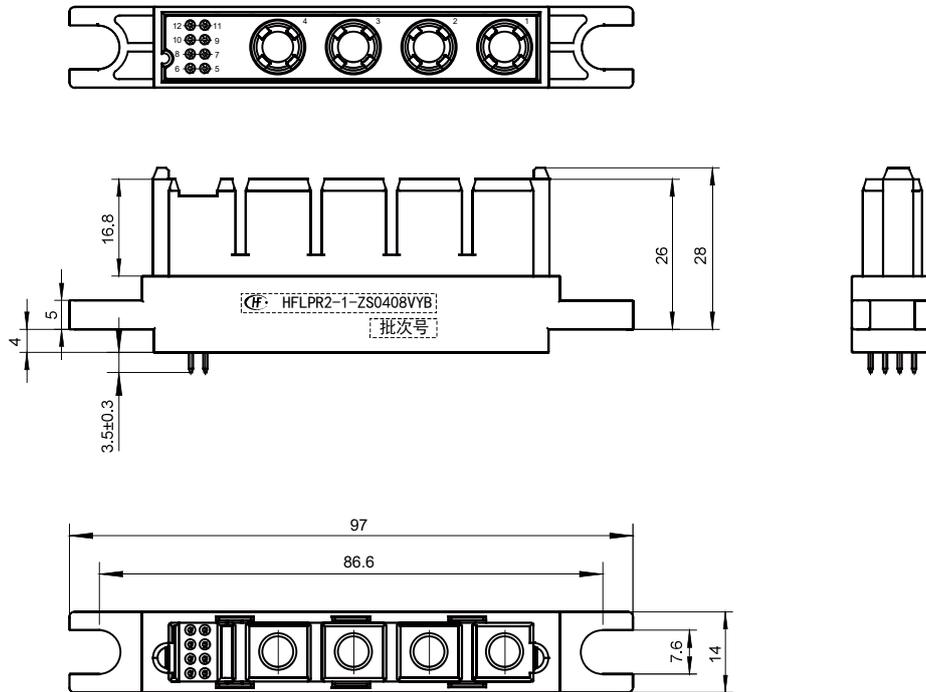
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 1.00

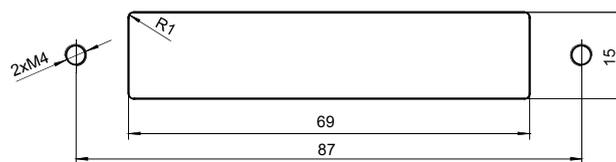
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



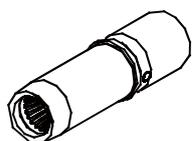
PCB Layout (Bottom view)



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.

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