

# HJ30J Series

HK-HJ30J — Micro-Rectangular Connector

Postek (HK) Co., Limited

Product Datasheet | Revision: 1.0 | 2026-07 aeroconnectpro.com | sales@aeroconnectpro.com

# 1. Product Overview

HJ30J Series — high-density micro-rectangular electrical connector. 124 model variants. Plug (TJ) + Socket (ZK) configurations, 12–100 contacts. GJB 101A-97 qualified.

## Key Specifications

| Parameter         | Value                  |
|-------------------|------------------------|
| Connector Type    | Micro-Rectangular      |
| Temperature Range | 12°C to 36°C           |
| Rated Voltage DC  | 500V DC                |
| Rated Voltage AC  | 500V AC                |
| Current Rating    | Consult datasheet      |
| Sealing           | Environmentally sealed |
| Service Life      | ≥500 mating cycles     |

## 2. Electrical Ratings

| Parameter                              | Test Condition     | Specification        | Unit                  | Notes                 |
|----------------------------------------|--------------------|----------------------|-----------------------|-----------------------|
| Rated Voltage                          | 500 V AC/DC        | “—”                  | Rated Current         | Consult datasheet     |
| “—”                                    | Contact Resistance | $\leq 0.015 \Omega$  | “—”                   | Insulation Resistance |
| $\geq 1000 \text{ M}\Omega$ (500 V DC) | “—”                | Dielectric Withstand | 1000 V AC (sea level) | “—”                   |

## 3. Common Specifications

| Parameter        | Specification                            |
|------------------|------------------------------------------|
| Vibration        | 10–2000 Hz, 196 m/s <sup>2</sup>         |
| Shock            | 980 m/s <sup>2</sup> , 6 ms              |
| Temperature      | 12°C to 36°C                             |
| Humidity         | 40°C, 90–95% RH, 96 h                    |
| Salt Spray       | 48 h (standard) / 96 h (extended)        |
| Mating Cycles    | $\geq 500$ cycles                        |
| Insulator        | High-temperature thermoplastic (PPS/LCP) |
| Contact Material | Copper alloy, gold-plated                |

## 4. Environmental Specifications

| Parameter   | Specification                     |
|-------------|-----------------------------------|
| Temperature | 12°C to 36°C                      |
| Humidity    | 40°C, 90–95% RH, 96 h             |
| Salt Spray  | 48 h (standard) / 96 h (extended) |

## 5. Mounting & Termination

| Configuration | Description          |
|---------------|----------------------|
| Panel Mount   | Flange / PCB / Cable |

## **6. Model Number Nomenclature**

| Field | Code     | Description               |
|-------|----------|---------------------------|
| I     | Series   | HK-HJ30J — HJ30J Series   |
| II    | Type     | Plug (TJ) / Socket (ZK)   |
| III   | Contacts | 12–100 positions          |
| IV    | Tail     | N=Straight, W=Bent, N5/N8 |

## **7. Quality Standards & Certifications**

| Standard       | Description                                  |
|----------------|----------------------------------------------|
| GJB 101A-97    | Electrical Connector — General Specification |
| GJB 1217A-2009 | Electrical Connector — Test Methods          |
| GJB 360B-2009  | Electronic Components — Environmental Test   |
| GJB 599A       | Micro-D Connector — Interface Standard       |
| MIL-STD-202    | Electronic Components — Test Methods         |
| IPC J-STD-001  | Soldered Assemblies — Requirements           |

## **8. Applications**

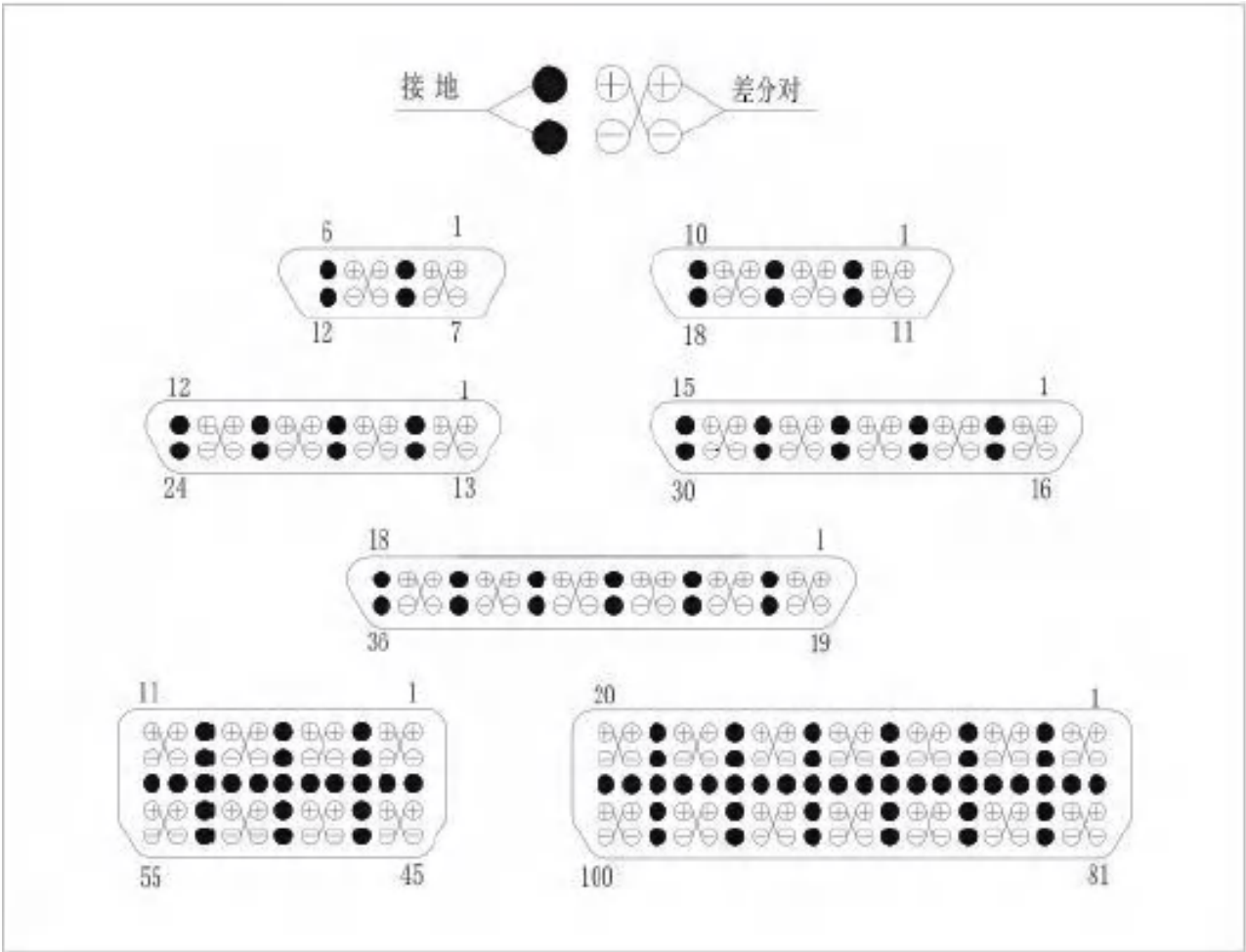
- Aviation Electronics — Flight control, navigation, engine monitoring, communication avionics
- Aerospace Equipment — Satellite bus/payload interconnects, launch vehicle harnesses, GSE
- Mission-Critical Systems — Radar, electronic warfare (EW), SIGINT, tactical data links
- Industrial Automation — Robotics sensor arrays, distributed I/O, machine vision, data acquisition
- Marine & Offshore — Navigation radar, sonar, underwater communication, shipboard control
- Rail & Transportation — Signaling, traction control, onboard diagnostics, high-speed rail
- Test & Measurement — ATE, instrumentation racks, data acquisition, laboratory interconnects
- Medical Electronics — Diagnostic imaging, patient monitoring, laboratory analyzers

## **9. Standards & Compliance**

- GJB 101A-97 — Electrical Connector General Specification (design, qualification, acceptance)
- GJB 1217A-2009 — Electrical Connector Test Methods (electrical, mechanical, environmental)
- GJB 360B-2009 — Test Methods for Electronic and Electrical Components
- GJB 599A — Mil-DTL-83513 Compatible Micro-D Connector Standard
- MIL-STD-202 — Test Methods for Electronic and Electrical Component Parts
- IPC J-STD-001 — Requirements for Soldered Electrical and Electronic Assemblies

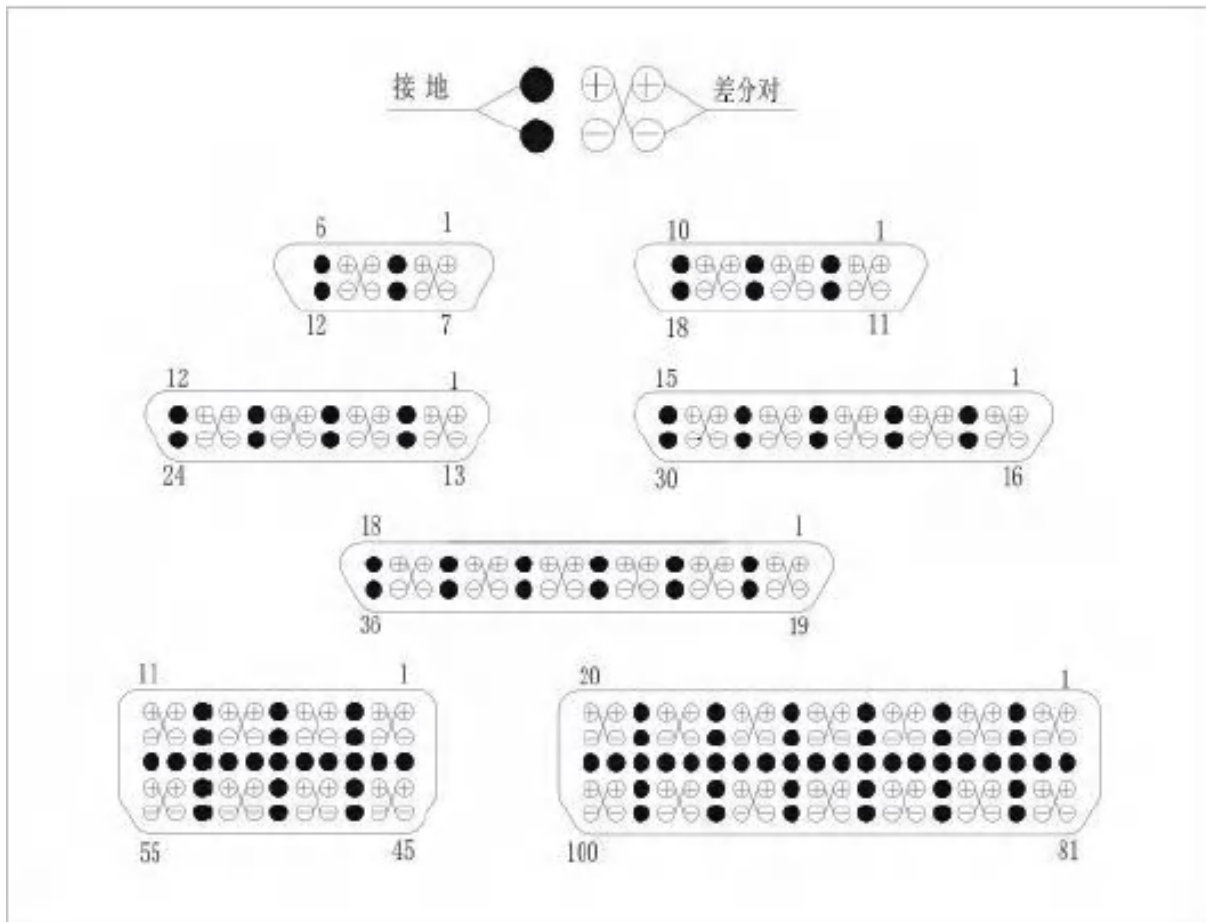
10. Engineering Drawings

Figure D1: Outline & Dimensions



Product Views

Figure P1: Product View



## 11. Ordering Information

- **MOQ:** 50–200 pcs per model
- **Samples:** Available on request
- **Lead Time:** 7–15 business days (standard models)
- **Contact:** sales@aeroconnectpro.com
- **Web:** www.aeroconnectpro.com
- **Telegram:** @hkpostek

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