

HSI Series

HK-HSI — Micro-Rectangular Connector

Postek (HK) Co., Limited

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

1. Product Overview

HSI Series — high-density micro-rectangular electrical connector. 6 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 ²
Shock	980 m/s ² , 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	≥ 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-HSI — HSI 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

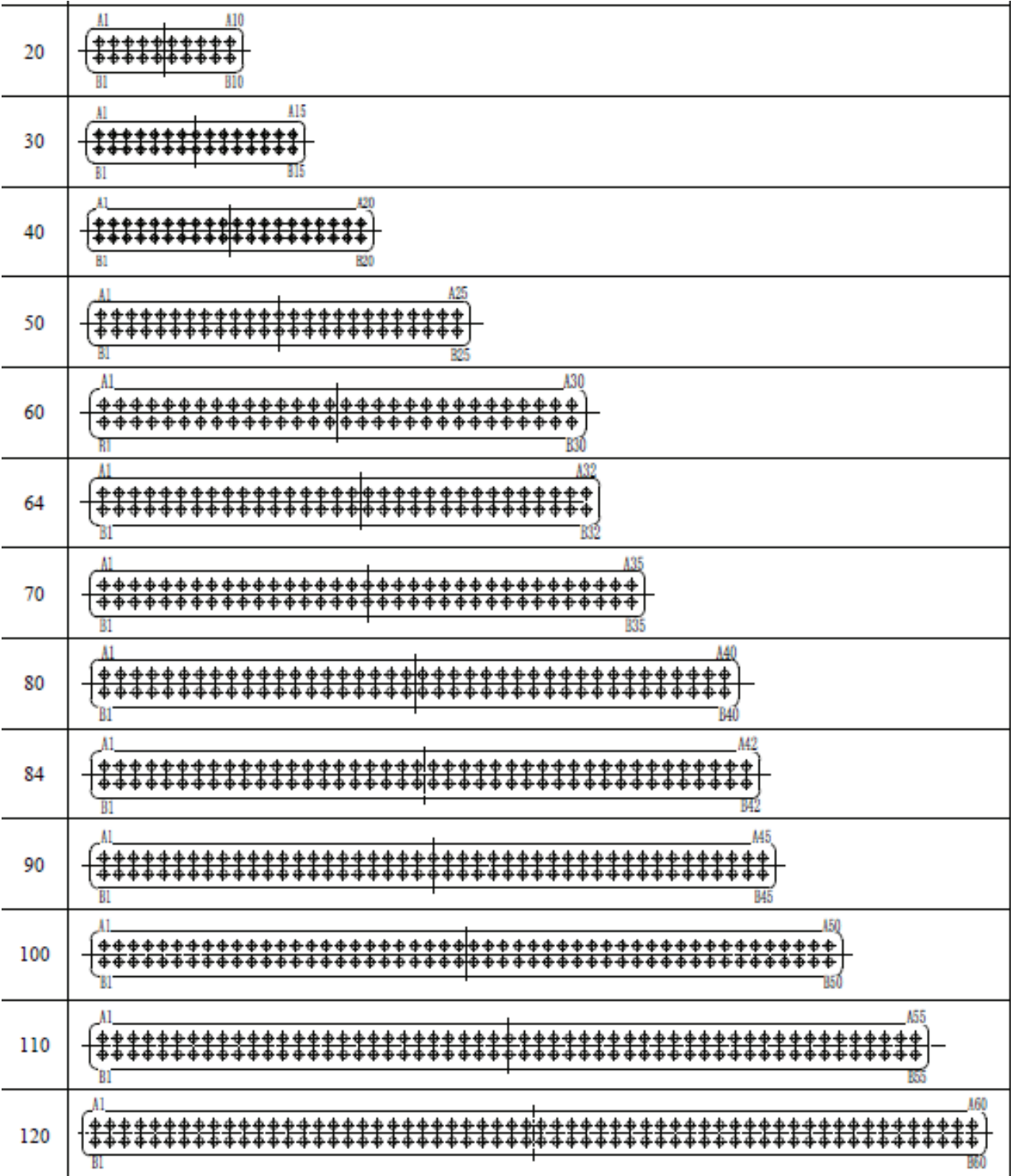
- Aviation Electronics — Flight control, navigation, engine monitoring, communication avionics
- Aerospace Equipment — Satellite bus/payload interconnects, launch vehicle harnesses, GSE
- Mission-Critical Systems — Radar, electronic warfare (EW), SIGINT, tactical data links
- Industrial Automation — 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

20	
30	
40	
50	
60	
64	
70	
80	
84	
90	
100	
110	
120	

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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