stAK50h Unsealed Connection System

Leveraging industry-approved terminal design, the stAK50h Connection System incorporates through-hole style unsealed headers and connectors to support the most stringent global automotive OEM requirements for body electronics, safety, infotainment and a variety of transportation applications.

Features and Benefits

Multiple terminals for design flexibility
Support a wide range from low-current signal (5.0A) to high-current power (30.0A) applications

Compliant to USCAR-2 and global
Automotive OEM standards. Enables faster time-to-market

PCB stand-offs molded into header housings
Provide additional trace-routing. PCB space under the headers

Stackable and modular header design
Eliminates costly custom tooling, engineering and validation time needed for multi-bay configurations

PCB-alignment posts for mating headers
Ensure proper terminal alignment via-holes of the PCB during assembly. Provide robust PCB retention

Standard USCAR color-coded housings
Support visual polarization. Expedite assembly of connector systems

Applications

Automotive
Comfort, Infotainment and Driver Assist
Body Electronics
Safety/Chassis
In-Vehicle Networking

Commercial Vehicles
Interior Electronic Modules
Body Electronic Modules

Car Navigation Systems
Power Seat Modules
Car Infotainment System
**Size Comparison Charts**

0.50mm, 1.20mm and 2.80mm terminals are developed to support wide range of applications ranging from low-current signal (5.0A) to high-current power (30.0A) applications.

**PRODUCT CONFIGURATION – PCB Headers**
## Specifications

**REFERENCE INFORMATION**
- Configuration: Wire-to-Board
- Mates With: TAK50 terminals
- Terminal Used: 0.50mm, 1.20mm, 2.80mm
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Yes
- Glow Wire Compliant: No
- USCAR-2 Compliant: Yes
- GMW3191 Compliant: Yes

**ELECTRICAL**
- Current (max.): 5A for 0.50mm contacts
- 12A for 1.20mm contacts
- 30A for 2.80mm contacts

**PHYSICAL**
- Pitch: 2.00mm min, 3.50mm max
- Gauge: 10 to 26 AWG
- Housing: USCAR color-coded
- Contact: 0.50mm, 1.20mm, 2.80mm
- Operating Temperature: -40 to +85°C

## Ordering Information

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<th>Orientation</th>
<th>Packaging</th>
<th>Operating temperature</th>
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