CMC 32- and 48-Circuit Right-Angle Sealed Headers

CMC 32- and 48-Circuit Right-Angle Headers offer a rectangular shape to make design easier while including an IP67- and IPX9K-rated seals and self-tapping screws to make installation more convenient in automotive and commercial vehicle applications.

Features and Advantages

- **Seal with IPX9K rating**
  - Prevents water and dust ingress.
  - Eliminates the need to apply sealant between the header and the casing.

- **Rectangular shape**
  - Eases design as compared to trapezoidal connectors.

- **Rugged construction**
  - Withstands high-vibration environments.

- **Wide operating temperature: -40 to +125°C**
  - Endures environmental extremes. Appropriate for motor controls and engine compartments.

- **Includes self-tapping screws**
  - Makes implementation easier. Eliminates the need for drilling. Speeds up assembly.

Markets and Applications

**Commercial Vehicle**
- Trucks
- Buses
- Motorcycles
- Marine
- Agricultural Equipment
- Construction Equipment

**Automotive**
- Engine Control Unit
- Automatic Gear Box
- Suspension Controller
- Parking Brake
- Inverter
- On-Board Charger

**Body Electronics**

- **Applications:**
  - Lighting Control System
  - Fuse Box
  - Electric Doors

- **Electrical / Hybrid Vehicles**
  - Vehicle Control Unit
  - Motor Control Units
  - Power Distribution Unit
  - On Board Charger
  - Inverter

**Commerical Vehicles**

**Motor and Converter Control Units in Engine Compartment**
CMC 32- and 48-Circuit
Right-Angle Sealed Headers

Specifications

**REFERENCE INFORMATION**
Mates With: 32- (Series 64319) and 48-Circuit (Series 64320) CMC Receptacles
Terminal Used: CP 0.6 and CP 1.5
Designed In: Millimeters

**ELECTRICAL**
Voltage (max.): 14V DC
Current (max.):
- 0.60mm Terminal — 2.5A
- 1.50mm Terminal — 12.0A
Contact Resistance (max.):
- 0.60 Terminal — 20 milliohms
- 1.50mm Terminal — 10 milliohms
Dielectric Withstanding Voltage: 1000V AC
Insulation Resistance (min.): 100 Megohms
Voltage Drop (max.):
- 0.60mm Terminal — 50mV
- 1.50mm Terminal — 50mV

**MECHANICAL**
Contact Insertion Force (max.):
- 0.63mm Terminal — 12N
- 1.50mm Terminal — 25N
Contact Retention to Housing (min.):
- 0.60mm Terminal — 15N
- 1.50mm Terminal — 50N
Insertion Force to PCB:
Mating/Un-Mating Force (max.): 70N
Durability (max.): 20 Cycles

**PHYSICAL**
Housing: PBT GF30
Plating: Tin or Gold
Operating Temperature: -40 to +125°C

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