Micro Power Distribution Box (μPDB) Custom Sealed Modules

For customers looking to add or relocate power switching and circuit protection in vehicles, Micro Power Distribution Box (μPDB) Custom Sealed Modules deliver the smallest footprint, easiest customization and most cost-effective solution in the industry.

Features and Benefits

Relays and fuses packaged close to the application
Eliminates need to run wiring back to the PDB from the fuses and relays. Reduces wasted space, costs and potential for wiring errors.

Sealed and connectorized system
Enables mounting in multiple locations within the vehicle. Reduces the amount of cut leads needed compared to traditional auxiliary boxes. Eliminates hard-wiring and the accompanying costs and potential errors.

Modular custom design specific to application
Delivers superior cost savings and performance for the specified application. Utilizes only the specific components and materials needed for the application.

Attaches like a connector
Removes the need for additional mounting hardware. Generates additional cost and time savings.

Sealed and connectorized system
Enables mounting in multiple locations within the vehicle. Reduces the amount of cut leads needed compared to traditional auxiliary boxes. Eliminates hard-wiring and the accompanying costs and potential errors.

Stackable modules
Saves space and enhances convenience for space-conscious applications.

Smaller footprint compared to current solutions
Provides significant space and weight savings. Enhances design flexibility for applications with strict space or weight limits.

Markets Served

Automotive
- OEM’s
- All Tiers

Commercial Vehicle
- Truck/Bus
- Agriculture
- Construction/Mining
- Marine
- Emergency Vehicles
- Warehousing/Lift
- Recreation/Off Road
- Motorcycles/Scooters

Recreational Vehicles
Boats and Watercraft
Cars
Motorcycles

This is not a definitive list of applications for this product. It represents some of the more common uses.
Micro Power Distribution Box (μPDB) Custom Sealed Modules

Specifications

**REFERENCE INFORMATION**
Packaging: Box
Mates With: MX150™ Sealed 1600XX-XXXX
Designed In: mm
Halogen Free: Yes
Sealing: IP6k7

**ELECTRICAL**
Relay Voltage: 6 to 14.5V DC
Current (max.): 50A
Insulation Resistance: greater than 10MΩ

**MECHANICAL**
Contact Retention to Housing (min.):
  - 6.30 and 2.80mm Blade – 112N
  - 1.50mm Blade – 75 N
Cover Retention Force: greater than 220N
Mating Connector:
  - Mating Force: less than 75N
  - Unmating Force: greater than 110N

**PHYSICAL**
Housing: PBT
Cover: PBT
Contact:
  - 6.30mm Blade – Copper Alloy
  - 2.80mm Blade – Copper Alloy
  - 1.50mm Blade – Copper Alloy
Plating: Tin/Silver
Operating Temperature: -40 to +110°C

Ordering Information

<table>
<thead>
<tr>
<th>Custom Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Molex</td>
<td>Micro Power Distribution Box (μPDB) Custom Sealed Modules</td>
</tr>
</tbody>
</table>

www.molex.com/link/micropdb.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.

Order No. 987651-4062 Rev. 1  USA/04/GF/2018.11  ©2018 Molex