High-density CMX 120-circuit right-angle headers are designed to meet the low and medium current requirements of space-constrained Engine Control Units or Transmission Control Units in Automotive and Commercial Vehicles

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid 120-circuit header with unique CMX interface utilizing 0.64 and 1.50mm tin-plated terminals</td>
<td>Supports low and medium current requirements with greater count of hybrid terminals for compact, high-vibration applications</td>
</tr>
<tr>
<td>PBR material designed with standard header cut-out shape</td>
<td>Facilitates standard liquid sealing process at module manufacturers</td>
</tr>
<tr>
<td>Right-angle design</td>
<td>Meets the needs of space-constrained environments</td>
</tr>
<tr>
<td>Two individual pockets in one connector (55 + 65 circuits)</td>
<td>Provides high number of circuits through two different mating connectors</td>
</tr>
<tr>
<td>Standard solder-tail fixing on PCB</td>
<td>Suitable for most popular PCB fixing method used in Automotive industry</td>
</tr>
<tr>
<td>Mates with 55- and 65-circuit CMX sealed connectors using matte seal technology for CTX064 and CTX150 terminals</td>
<td>Provides ultimate, high-performance sealing; meets IP6K7, IP6K9K and 500mbar immersion specifications once mated with CMX connectors</td>
</tr>
</tbody>
</table>

Applications

Markets:
Automotive and Commercial Vehicle:
- Cars
- Agricultural machinery
- Trucks
- Construction vehicles
- Boats, Jet skis

Applications:
All wire-to-board applications requiring:
- High circuit count
- Hybrid interface including signal and medium-current terminals for applications requiring up to 20.0A

Note: Molex reserves the right to delay or cancel production of the depicted product without additional notice. Please contact your Molex customer service representative for product availability.
Specifications

CMX 55- and 65-Circuit Connection System

REFERENCE INFORMATION
Packaging: Carton box
Use With:
Terminals: Series 34803 CTX 064
Series 34805 CTX 150
Blind plugs:
For CTX 064 cavity: 64325-1010
For CTX 150 cavity: 64325-1023
(Use blind plugs only if rear seal cover is not molded with breakable dummy plugs)
Wire Cap: 55/65-Circuit: 502730-0001
Designed In: mm
RoHS: Yes
Halogen Free: Yes

PHYSICAL
Housing: PBT GF 30%
Operating Temperature:
-40 to +125°C
Connector loading:
65-Circuit CMX Connector:
0.64mm cavity × 55
1.50mm cavity × 10
55-Circuit CMX Connector:
0.64mm cavity × 35
1.50mm cavity × 20

ELECTRICAL
Voltage (max.): 12V AC
Current (max.):
CTX 064 terminal max. 2.5A
(0.75mm² wire)
CTX 150 terminal max. 12A
(2mm² wire)
Contact Resistance: (100mA 50mV)
CTX 064 terminal: 30m ohms max.
CTX 150 terminal: 10m ohms max.
Dielectric Withstanding Voltage:
1000V AC for 1 minute
Insulation Resistance:
100 Megohms min.

MECHANICAL
Contact Retention to Housing:
CTX 064 terminal: 60N
CTX 150 terminal: 98N
Mating Force: 60N max.
Unmating Force: 60N max.
Durability (max.): 20 cycles

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