

HD Mezz Mezzanine Connector System

molex[®]

Designed for high-density, high-performance mezzanine applications, HD Mezz Mezzanine Connector System simplifies PCB routing and maximizes card-slot space while delivering 12.5 Gbps data rate

Features and Benefits

Data rates of up to 12.5 Gbps

Delivers excellent signal clarity with ample bandwidth for high-speed designs

Reliable mating interface with 2.00mm wipe and 2 points of contact

Enables sufficient conductive wipe for clean signal transmission and enhanced durability

High durability

Endures 100 mating cycles

Stack heights ranging from 16.00 to 38.00mm and 91 to 351 circuits

Provides design flexibility. Supports applications with space constraints

Guide pins

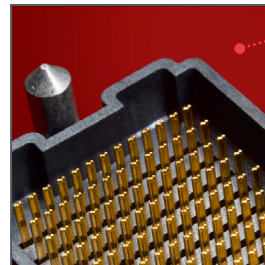
Supports robust mating alignment. Aids blind mating

SolderCharge: patented solder-attach method for PCB termination

Offers a termination method that is more cost effective and reliable than ball grid array (BGA)

High contact density with 14 differential pairs per square centimeter

Eases space constraints on PCBs



Applications

Telecommunications/Networking

- Base stations
- High- and midrange-computing equipment
- Networking equipment
- Routers and switches

Medical

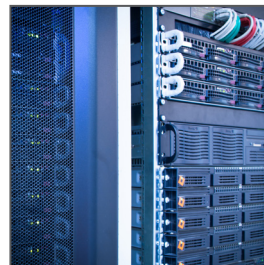
- Diagnostic probes

Automotive

- Infotainment
- Autonomous driving modules



Diagnostic Probe



Datacenter Switches



Base Station

HD Mezz Mezzanine Connector System



Specifications

REFERENCE INFORMATION

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low-Halogen
Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 250V AC per Contact
Current (max.): 2.0A per Contact
Contact Resistance: 25 milliohms nominal
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance:
 Across Wafers (min.) – 5000 Megohms
 Within Wafers (min.) – 1000 Megohms

MECHANICAL

Mating Force: 51g Nominal per Contact
Unmating Force: 25g Nominal per Contact
Durability (min.): 100 Cycles

PHYSICAL

Housing: Glass-Filled LCP, UL 94V-0
Contact: Copper Alloy
Plating:
 Contact Area (min.) — 0.75µm Gold
 Solder Tail Area (min.) — 2.50µm Tin
Underplating — 1.25µm Nickel
PCB Thickness: 1.600mm
Operating Temperature: -55 to +105°C

Ordering Information

Series No.	Component
45802	Receptacle
45830	Plug

Custom Product	Description
Contact Molex	Customized HD Mezz Connector System

www.molex.com/product/hdmezz.html

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