FEATURES AND SPECIFICATIONS

查询"45802-0011"供应商

Simplify PCB routing, maximize card-slot space and achieve speeds up to 12.5 Gbps with Molex's HD Mezz; designed for the large and growing high-density and high-performance mezzanine connector market

The High Density Mezzanine (HD Mezz) board-toboard connector is designed for computer, networking, telecommunications, storage and general market applications with high pin-count devices on mezzanine or module printed circuit boards (PCBs). This design provides a flexible tooling approach that allows for multiple stack heights and circuit-size extensions.

HD Mezz provides many benefits. It allows customers to simplify PCB routing without sacrificing performance, avoid the expense of large complex

multi-layer boards and utilize space more efficiently within a given card slot area. Option cards may be added or upgraded to increase flexibility in design, production and testing.

nolex®

The HD Mezz design has superior electrical and mechanical features that are cost competitive. The Molex patented solder-charge technology results in better process yields and a lower applied cost versus equivalent BGA connector products.

1.20 by 2.00mm (.047 by .079″) Pitch HD Mezz™ Connectors

45802 HD Mezz[™] Receptacle 45830 HD Mezz[™] Plug



Left to right: HD Mezz Receptacle (Series 45802) and HD Mezz Plug (Series 45830)

Features and Benefits

- Molex's patented solder attach method is more cost effective and reliable than Ball Grid Array (BGA) connector attach methods
- Data rates up to 12.5 Gbps for excellent signal clarity with ample bandwidth for customer requirements in high-speed designs
- Stack heights ranging from 16.00 to 38.00mm (.630 to 1.496") and circuit sizes of 91 to 403 circuits provides ease in design based on engineering constraints in system envelopes
- Highest contact density on the market with 14 differential pairs per cm² is extremely useful for space constrained designs with limited PCB real estate
- Reliable mating interface with 2.00mm (.079") wipe and two points of contact with sufficient conductive wipe for clean signal transmission and enhanced durability

SPECIFICATIONS

Reference Information

Product Specification: PS-45802-001 Packaging: Tray UL File No.: TBD CSA File No.: TBD Designed in: Millimeters

Electrical

Voltage: 250V AC per contact Current: 2.0A per contact Contact Resistance: 25 milliohms nominal Dielectric Withstanding Voltage: 500V DC Insulation Resistance:

Across Wafers – 5000 Megohms min. Within Wafers – 1000 Megohms min.

Mechanical

Mating Force: 51g nominal per contact Unmating Force: 25g nominal per contact Normal Force: 51g nominal per contact Durability: 100 cycles

Physical

Housing: Glass-filled LCP, UL 94V-0 Contact: Copper (Cu) alloy Plating: Contact Area – 0.75µm Gold (Au) min. Solder Tail Area – 2.50µm Tin (Sn) min.* Underplating – 1.25µm Nickel (Ni) overall Operating Temperature: -55 to +105°C



APPLICATIONS

查询"45802-0011"供应商

- High and mid-range computers
 Servers
- Medical
 Scanning equipment
- Military
- Networking and telecommunications
 - Network routers and switches
 - Mobile base stations



Mezzanine card for a customer application with one and two HD Mezz assemblies per card

1.20 by 2.00mm (.047 by .079") Pitch HD Mezz[™] Connectors

> 45802 HD Mezz[™] Receptacle 45830 HD Mezz[™] Plug

ORDERING INFORMATION

Order No. (Lead-free)	Order No. (Tin-Lead)	Component	Circuits†	Height
45802-0311	45802-0011	Receptacle	143	8.00mm (.314″)
45802-0215	45802-0015		195	
45802-0223	45802-0123		299	
45802-1211	45802-1011		143	18.00mm (.708″)
45802-1223	45802-1123		299	
45802-1225	45802-1025		325	
45830-0215	45830-0015	Plug	195	- 8.00mm (.314")
45830-0223	45830-0023		299	
45830-2211	45830-2011		143	10.00mm (.393″)
45830-2223	45830-2023		299	
45830-2225	45830-2025		325	
45830-1211	45830-1111		143	18.00mm (.708")

†Please contact Molex Customer Service for additional circuit sizes and stack heights

Americas Headquarters Lisle, Illinois 60532 U.S.A. 1-800-78MOLEX amerinfo@molex.com Asia Pacific North Headquarters Yamato, Kanagawa, Japan 81-46-265-2325 apninfo@molex.com

ters Asia Pacific South Headquarters Euro Jurong, Singapore Muni 65-6268-6868 49-8 fesinfo@molex.com eurin Visit our website at www.molex.com/product/hdmezz.html

European Headquarters Munich, Germany 49-89-413092-0 eurinfo@molex.com **Corporate Headquarters** 2222 Wellington Ct. Lisle, IL 60532 U.S.A. 630-969-4550 Fax:630-969-1352

Order No. 987650-1132