

Millipacs® Mezzanine

2.00MM MODULAR MEZZANINE INTERCONNECTION SYSTEM

Millipacs® vertical header and receptacle mating combination offers a range of stack heights between 15mm and 25mm for mezzanine applications. Millipacs® connector interfaces provide high reliability and robustness making it suitable for the most demanding applications in aerospace, industrial and also traditional telecom segments. Side walls protect the contact system from damages from the sides. All the features of the 5 row 2mm hardmetric connector systems are retained in the extended stack height versions.

- High reliability with dual beam tulip contact design and best-in-class guiding and coding
- Options for multiple wiping lengths and FMLB
- 2mm pitch, modular and stackable
- Multiple stack height options addresses a range of applications
- Offers various configuration options – signal or power (up to 40A) or hybrid
- Options for high temperature grade Low Smoke Low Halogen material (LSLH) compatibility



TARGET MARKETS



FEATURES

- Stack height options in interval of 3mm
- Option for up to 5.50mm wiping distance and with three different mating contact lengths
- Dual beam tulip design contact for receptacle
- 2mm pitch
- Multipurpose center, coding feature, guiding feature, and location peg
- Different terminal lengths

BENEFITS

- Addresses a range of applications within 15.00mm to 24.60mm range and up to 125 signal pins
- Positive contact circuitry and FMLB/LMFB options
- Equalized signal path and contact reliability
- Adequate spacing for routing PCB traces and thereby optimizing board layers
- Easy guiding, visual identification, and prevents mismatching,
- Suitable for different PCB thickness and for rear plug applications

TECHNICAL INFORMATION

MATERIAL

- Header: Tin over Nickel on press-fit terminal area
- Insulator: Thermoplastic UL94V-0
- Receptacle: High Temperature Polymer
- Contact Material: Copper Alloy
- Contact Plating Material: Gold/Palladium Nickel on mating area

ELECTRICAL PERFORMANCE

- Operating Current: 1.5A at 20°C and 1.0A at 70°C
- Test Voltage: 750Vrms
- Contact Resistance: 20mΩ max.
- Insulation Resistance: 10⁴MΩ min.

MECHANICAL PERFORMANCE

- Mating Force: 0.75N max. per contact pair
- Withdrawal Force: 0.15N min. per contact pair
- Hertz Stress: 200Kpsi min.
- Misalignment: Longitudinal ± 2.0mm
Transversal ± 2.5mm
- Inclination: ±2.0°

ENVIRONMENTAL

- Operating Temperature Range: -55°C to +125°C

APPROVALS AND CERTIFICATIONS

- UL and CSA

SPECIFICATIONS

- IEC 917, IEC 61076-4-101
- Telcordia GR-1217-CORE standards

PACKAGING

- Tray

TARGET MARKETS/APPLICATIONS



Avionics Video Unit
Airborne Control Unit
Aviation, Multi Function Display



Internet backbone, Data over public N/Ws
Core Switches, Routers, Hubs, Base Stations
Servers & Storage Unit
Transmission, Access Systems



Test & Measurement Equipment
Energy Transmission – Wind Turbines, Smartgrids
Railway Communication, Controllers, Signalling Radar,
Security Surveillance, Industrial Robots Conference
Systems, Projection Equipment, Drones



Ultrasonic Equipment
HD imaging Equipment

PART NUMBERS

Maximum no. of signal pins	Stack Height (mm)	Length (mm)	Type	Vertical Header	Vertical Receptacle
110	15, 18, 25	50	A	HM2P07	HM2S01/ HM2S10
125	15, 18, 25	50	B	HM2P08	HM2S02
55	15, 18, 25	25	C	HM2P09	HM2S03/HM2S30
95	15	38	B19	HM2P71	HM2S71
110	15	44	B22	HM2P70	HM2S70
3 Power + 55	25	50	M	HM2P11	HM2S05
125	15, 18, 25	50	AB	HM2P65	HM2S65

Find part number details using the search box on www.amphenol-cs.com