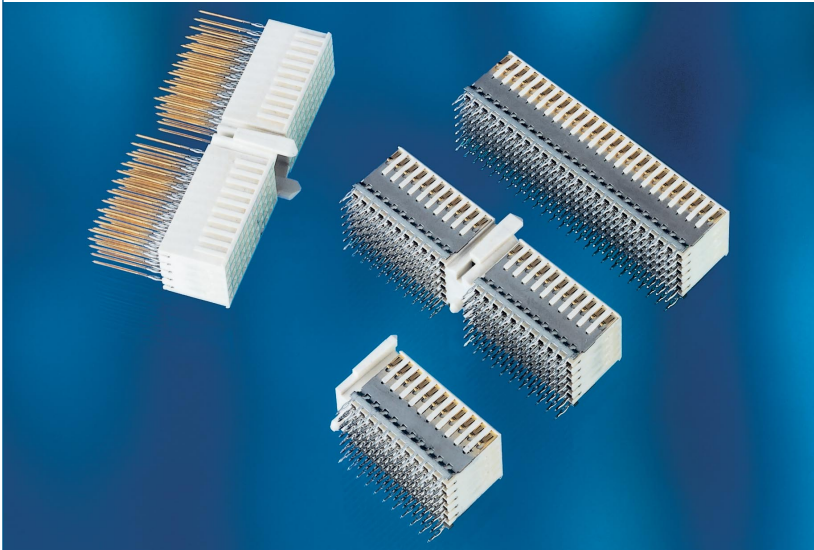




Millipacs® Hard Metric 5+2 Row Vertical Receptacle Modules

Interconnection System



Description

FCI introduces a new line of 5+2 row Vertical Receptacles that are available in the standard signal modules A, B & C and also B19 & B22 sizes for CompactPCI compatibility. The two shield rows are optional. All modules are available with Standard Tail or Rear Plug-Up Tails (for use with a Header Shroud on the Rear side of the PCB BackPlane).

This system is designed for applications requiring a parallel board-to-board connection within the normal Hard Metric Millipacs® environment. These vertical receptacle modules, when mated to a standard straight header are suitable for both parallel and mezzanine board-to-board applications

In addition to parallel and mezzanine designs – these Vertical Receptacles can also be used in applications that require an indestructible BackPlane (i.e. where any risk of BackPlane pin damage is not acceptable). Vertical Receptacles can be used in the place of Vertical Headers on the BackPlane, and Right Angle Headers are used on the Daughter Cards (requires a slight PCB dimensional adjustment).

The Millipacs® 2 mm Hard Metric Interconnection System consists of 5+2 and 8+2 row Connector families compliant with the IEC 1076-4-101 specifications.

<http://www.fciconnect.com>

Features & Benefits

- cPCI compatible
- Press fit terminations
- Resilient one-piece receptacle housing design
- Integrated shield options
- Customized loading patterns
- Short tail and rear plug up terminations
- Flat rock tooling insertion process for unshielded versions

Target Markets

- cPCI users requiring reverse gender
- Telecom
- Datacom
- Test equipment & industrial instrumentation
- Medical

Target Applications

- Parallel board-to-board applications
- Mezzanine packaging
- Baby board applications
- Reverse gender cPCI systems when used with right angle headers

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717 938 7200
Europe Tel.: 33 1 39 49 21 83
Asia/Pacific Tel.: 65 549 6666



Millipacs[®] Hard Metric 5+2 Row Vertical Receptacle Modules

Technical Features

Materials

- Housings: Glass filled, high temperature LCP
- Contacts: Phosphor bronze
- Plating: Selective gold over nickel all over, tin-lead on press fit areas

Electrical Performance

- Operating temperature: -55°C to +125°C
- Current rating: 1.5 A at 20°C, 1.0 A at 70°C
- Contact resistance: 20mΩ max.
- Insulation resistance: 10⁴ MΩ min.

Part Numbers

Description	FCI Part Number	Insertion Tooling*
Type A Receptacle (cPCI), Unshielded	HM2S10PE5100N9	Flat Rock
Type A Receptacle (cPCI), Shielded	HM2S10PE5101N9	PAY245A17
Type A Receptacle (cPCI), Unshielded, with RPU Tails	HM2S10PK5100GF	Flat Rock
Type A Receptacle (cPCI), Shielded, with RPU Tails	HM2S10PK5101GF	PAY245A17
Type B Receptacle, Unshielded	HM2S02PE5100N9	Flat Rock
Type B Receptacle, Shielded	HM2S02PE5101N9	PAY245A18
Type B Receptacle, Unshielded, with RPU Tails	HM2S02PK5100GF	Flat Rock
Type B Receptacle, Shielded, with RPU Tails	HM2S02PK5101GF	PAY245A18
Type C Receptacle, Unshielded	HM2S30PE5100N9	Flat Rock
Type C Receptacle, Shielded,	HM2S30PE5101N9	PAY245A19
Type C Receptacle, Unshielded, with RPU Tails	HM2S30PK5100GF	Flat Rock
Type C Receptacle, Shielded, with RPU Tails	HM2S30PK5101GF	PAY245A19
Type B19 (cPCI) Receptacle, Unshielded,	HM2S71PE5100N9	Flat Rock
Type B19 (cPCI) Receptacle, Shielded,	HM2S71PE5101N9	PAY245A77
Type B19 (cPCI) Receptacle, Unshielded, with RPU Tails	HM2S71PK5100GF	Flat Rock
Type B19 (cPCI) Receptacle, Shielded, with RPU Tails	HM2S71PK5101GF	PAY245A77
Type B22 (cPCI) Receptacle, UnShielded,	HM2S70PE5100N9	Flat Rock
Type B22 (cPCI) Receptacle, Shielded,	HM2S70PE5101N9	PAY245A76
Type B22 (cPCI) Receptacle, Unshielded, with RPU Tails	HM2S70PK5100GF	Flat Rock
Type B22 (cPCI) Receptacle, Shielded, with RPU Tails	HM2S70PK5101GF	PAY245A76

Mechanical Performance

- Mating force: 0.75 N max. per contact pair
- Withdrawal force: 0.15 N min. per contact pair
- Normal force: 0.75 N min. (EOL)

Specifications

- Products fully in accordance with IEC 61076-4-101, but not included in the specification as of this date
- Fully intermatable with other comparable competitive hard metric products

Approvals & Certifications

- UL and CSA approval pending

* Standard insert tooling, other tooling (push blades or anvils) may be required depending on your requirements and the press being used, please call technical services for more information

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