

MILLIPACS® 2mm HARD METRIC SERIES – VERTICAL RECEPTACLE CONNECTORS

OVERVIEW

Two outer rows

Millipacs® is a 2mm modular, Board-To-Board or Cable-To-Board Interconnection system in Hard Metric (HM) configuration designed in accordance with IEC 917, IEC 61076-4-101 and Telcordia GR-1217-CORE standards.

2mm HM connector is one of the most popular backplane connector systems. Millipacs® series offers attractive propositions for all market segments due to the cost effectiveness, user flexibility, standardization and availability of its broad range. Millipacs® connector system is extensively used for chassis-based packaging in the communications, data, medical and industrial & instrumentation segments.

Millipacs® HM vertical receptacles are offered in standard 5 row signal modules and up to maximum of 125 signal contacts per 50mm. Vertical receptacle module, when mated to a standard straight header are suitable for parallel Board-To-Board applications. Vertical receptacle can also be used in backplane in the place of vertical header and mated with right angle header on the daughter card.



FEATURES	BENEFITS		
 Hard Metric 2mm pitch	 Popular equipment practice standard. Millipacs® co-exists with all HM compatible connectors and accessories 		
	 Adequate spacing for routing PCB traces and thereby optimizing board layers, Reduces PCB real estate Vs 2.54mm 		
Modular and Scalable by 25mm to 50mm	Standard Modular length, without any loss of position		
One piece receptacle housing design	Robustness		
Multipurpose center, Coding feature, location peg	Easy guiding and visual identification. Prevents wrong mating		
Customized loading pattern	Cost-effective solutions for product extensions and customized requests		
Long pin connector	Extended stack height in mezzanine applications		
Rear plug up	 Extended mating applications via shrouds on the rear side of the PCB 		

· Optional shielding

➤ MILLIPACS® 2mm HARD METRIC SERIES – VERTICAL RECEPTACLE CONNECTORS

TECHNICAL INFORMATION

MATERIALS

- Insulator material: High-Temperature polymer
- · Contact material: Copper Alloy
- Contact plating: Gold/Palladium nickel on mating areas and Tin over Nickel on press-fit/terminal area

ELECTRICAL PERFORMANCES

 Operating current: 1.5 A at 20°C : 1.0 A at 70°C

• Test voltage: 750 Vrms

• Contact resistance: $20 \text{ m}\Omega$ max • Insulation resistance: $10^4 \text{ M}\Omega$ min

MECHANICAL PERFORMANCE

• Mating force: 0.75 N max per contact pair

• Withdrawal force: 0.15 N min per contact pair

· Hertz stress: 200 Kpsi min

Misalignment: Longitudinal ± 2.0mm
 Transversal ± 2.5mm

• Inclination: ±2.0°

SPECIFICATIONS

• Product specification: GS-12-203

• Application specification: GS-20-022

ENVIRONMENTAL

• Operating temperature: -55°C to +125°C

APPROVALS AND CERTIFICATIONS

- Designed in accordance with IEC 917 and IEC 61076-4-101
- Fits DIN 43356 and IEEE 1301 Hard Metric Practice
- Telcordia GR-1217-CORE standards
- UL and CSA recognized

PACKAGING

· Tray Packaging

TARGET MARKETS/APPLICATIONS

- Communications
 - IP, Internet backbone driving high bandwidth requirements
 - · LAN / WAN interfaces & data over public networks
 - Core Switches
 - Routers
 - Hubs
 - · Base Station
 - · Wireless Base Station
 - · Transmission Access Systems
- Data
 - Servers
 - · Storage units
- · Industrial & Instrumentation
 - Data Acquisition systems for Test & Measurements
 - · Railway Traffic Management & Control Systems
 - · Control Systems for Process
 - · Energy & Power Industries
 - · In-flight Entertainment & Communication for Avionics
 - · Digital Image Processing
 - · Multimedia
 - Signage
 - Video Surveillance
 - Radar
 - · Sonar System
 - UAV
- · Medical
 - · MRI Scanners
 - Diagnostic Equipment

PART NUMBERS

No. of signal rows	Туре	Features	Vertical Receptacle series	Max. No. of signal pins	Mounting style
5	A	22 column, 50mm + MPC	HM2S10P	110	Press-fit
		22 column, 50mm + MPC+ location peg	HM2S01P	110	Press-fit
		22 column, 50mm + MPC + long pin	HM2S10PE51N	110	Press-fit
	В	25 column, 50mm	HM2S02P	125	Press-fit
	B22	22 column, 44mm	HM2S70P	110	Press-fit
	B19	19 column, 38mm	HM2S71P	95	Press-fit
	С	11 column, 25mm + end polarization	HM2S30P	55	Press-fit
		11 column, 25mm + end polarization + location peg	HM2S03P	55	Press-fit
		11 column, 25mm + end polarization + long pin	HM2S30PE51N	55	Press-fit
	М	50mm, 55 signal + 3 power/coax + MPC + long pin	HM2S05PE51N	55	Press-fit

 $[\]ensuremath{^{*}}$ MPC – Multi purpose center for polarization and coding

2 - 250 mating cycles;

1 - 500 mating cycles.

^{*} Application tooling are available on request

^{*} Performance levels: 3 - 50 mating cycles;

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