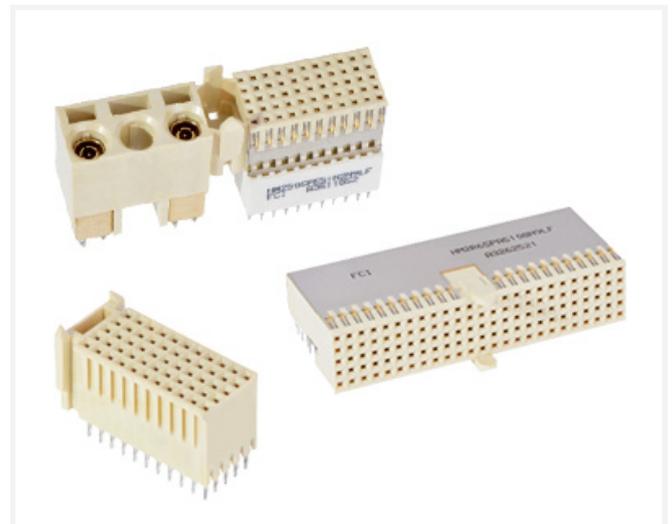


# Millipacs® Vertical Receptacle Connectors

## DESIGNED ACCORDANCE WITH IEC 917, IEC 61076-4-101 AND TELCORDIA GR-1217-CORE STANDARDS

Millipacs® HM vertical receptacles are offered in standard 5 and 8 row signal modules and up to maximum of 200 signal contacts. 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.

- Saves space with a 2.00mm pitch
- Current rating up to 1.5A
- Modular and Scalable by 25mm to 50mm
- Data rates options up to 25 Gb/s
- Hot swapping and EMI Protection



### TARGET MARKETS



### FEATURES

- Receptacle contact- tulip type
- Robustness
- Long pin connector
- Top and bottom shielding options
- Stamped contacts for receptacles
- RoHS compliant and lead-free

### BENEFITS

- Equalized signal path and contact reliability
- One piece receptacle housing design
- Extended stack height in mezzanine applications
- EMI protection
- Accurate true positioning
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Insulator material: High-temperature polymer
- Contact material: Copper alloy

### MECHANICAL PERFORMANCE

- Mating Force: 0.75N max. per contact pair
- Withdrawal Force: 0.15N min. per contact pair
- Hertz Stress: 200Kpsi min.
- Misalignment: Longitudinal  $\pm 2.00$ mm Transversal  $\pm 2.50$ mm
- Inclination:  $\pm 2.0^\circ$

### ELECTRICAL PERFORMANCE

- Operating Current:
  - 1.5A at 20°C
  - 1A at 70°C
- Test Voltage: 750Vrms
- Contact Resistance: 20m $\Omega$  max.
- Insulation Resistance: 10,000M $\Omega$  min.

### PACKAGING

- Tray packaging

### APPROVALS & CERTIFICATION

- 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

### TOOLING INFORMATION

- 10146110-VR5A
- 10146110-VR5B
- 10146110-VR5B19
- 10146110-VR5B22
- 10146110-VR5C
- 10146110-VR8E
- 10146110-VR8D
- 10146110-VR8F

### SPECIFICATION

- Product Specification: GS-12-203
- Packaging Specification: GS-20-022

### ENVIRONMENTAL

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

### TARGET MARKETS/APPLICATIONS



Automotive



Communications



Data



Industrial & Instrumentation



Medical



Military

## PART NUMBERS

No. of signal rows	Type	Features	Vertical Receptacle series	Max. No. of signal pins	Stack height (mm)	Mounting style
5	A	22 column, 50mm + MPC	HM2S10P	110	15,18,25	Press-fit
	A	22 column, 50mm + MPC+ location peg	HM2S01P	110	15,18,25	Press-fit
	B	25 column, 50mm	HM2S02P	125	15,18,25	Press-fit
	B22	22 column, 44mm	HM2S70P	110	15,18,25	Press-fit
	B19	19 column, 38mm	HM2S71P	95	15,18,25	Press-fit
	B8	8 column, 16mm	HM2S76P	40	15,18,25	Press-fit
	C	11 column, 25mm + end polarization	HM2S30P	55	15,18,25	Press-fit
	C	11 column, 25mm + end polarization + location peg	HM2S03P	55	15,18,25	Press-fit
8	D	22 column, 50mm+MPC	HM2S87P	176	15,18,25	Press-fit
	DE	25 column, 50mm	HM2S95P	200	15,18,25	Press-fit
	E	25 column, 50mm	HM2S88P	200	15,18,25	Press-fit
	F	11 column, 25mm	HM2S89P	88	15,18,25	Press-fit

\*. MPC – Multi purpose center for polarization and coding