

METRAL® RIGHT ANGLE HEADER AND VERTICAL RECEPTACLE

OVERVIEW

Metral® product family offers the widest range of backplane connector solutions which includes right angle header and vertical receptacle series. The connectors are designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORF

Metral® right angle headers and vertical receptacles offer high contact density of 250 contacts per 100mm connector length and a contact pitch of 2mm. They are available in 4 and 5 row versions.

Metral[®] vertical receptacles can be used with vertical headers for mezzanine application.

Metral® backplane connectors meet Futurebus+ standards to support applications in data, industrial and instrumentation, medical and telecom markets.



FEATURES

- Modular and scalable, available in 1, 2, 4 and 8 modules
- 250 contacts per 100mm connector length
- Press-fit, Solder-to-Board and Pin-in-Paste terminations
- Varying pin length enables first-mate, last-break capability
- 4 and 5 row versions available
- Dual beam contact design for receptacles
- · Locating pegs option available

BENEFITS

- Flexible modular length without any loss of contact position
- High signal density
- Caters to different application requirement
- Allama as a constitution of size for decimal for
- Allows sequential connection of pins for design flexibility and offers protection
- · Caters to different connector sizes
- Provides electrical reliability and withstands vibration
- Enables accurate positioning of connector on PCB, holds connector in place

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature thermoplastic; UL 94V-0
- · Contact: Copper Alloy
- · Plating: Performance-based plating

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 1000V rms
- Insulation Resistance: 5000M Ω min.
- Current Rating: 1A (all contacts powered)

ENVIRONMENTAL

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

SPECIFICATIONS

• Product Specifications: GS-12-445, 446, 447, 448

MECHANICAL PERFORMANCE

• Mating Force: 0.45N max. per pin

• Unmating Force: 0.15N min. per pin

APPROVALS AND CERTIFICATIONS

- IEC 61076-4-104
- GR-1217-CORE

PACKAGING

- Tube for Press-fit and Solder-to-Board terminations
- Tape and Reel for Pin-in-Paste termination

TARGET MARKETS/APPLICATIONS

- Data
- · Industrial & Instrumentation
- Medical
- Telecom

PART NUMBERS

Right Angle Header (RAH)		Module	Termination	Vertical Receptacle (VR)	
Row				Row	
4	5			4	5
HM1L41LDP000H6PLF	HM1L51LDP000H6PLF	1	Press-fit	85757-1101LF	85761-1101LF
HM1L42LDP000H6PLF	HM1L52LDP000H6PLF	2	Press-fit	85758-1101LF	_
HM1L43LDP000H6PLF	HM1L53LDP000H6PLF	4	Press-fit	85759-1101LF	85763-1101LF
HM1L44LDP000H6PLF	HM1L54LDP000H6PLF	8	Press-fit	-	_
HM1L41LAP000H6PLF	HM1L51LAP000H6PLF	1	Solder -to- Board	HM1S41TSR000H6PLF	HM1S51TSR000H6PLF
HM1L42LAP000H6PLF	HM1L52LAP000H6PLF	2	Solder -to- Board	HM1S42TSR000H6PLF	HM1S52TSR000H6PLF
HM1L43LAP000H6PLF	HM1L53LAP000H6PLF	4	Solder -to- Board	HM1S43TSR000H6PLF	HM1S53TSR000H6PLF
HM1L44LAP000H6PLF	HM1L54LAP000H6PLF	8	Solder -to- Board	HM1S44TSR000H6PLF	HM1S54TSR000H6PLF
HM1L41LFP000H6PLF	HM1L51LFP000H6PLF	1	Pin-in-Paste		

Note: Vertical receptacles with Solder-to-Board termination available upon request

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:

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85757-1101 HM1L41ADP000H6PLF 85758-1101 HM1L41CDP000H6PLF HM1L41DAP000H6PLF
HM1L41DDP000H6PLF HM1L41LAP000H6PLF HM1L41LDP000H6PLF HM1L41ZDP424H6PLF
HM1L42AAP000H6PLF HM1L42ADP000H6PLF HM1L42DAP000H6PLF HM1L42DDP000H6PLF
HM1L42ZDP421H6PLF HM1L42ZDP444H6PLF HM1L43AAP000H6PLF HM1L43ADP000H6PLF
HM1L43DDP000H6PLF HM1L43LAP000H6PLF HM1L43ZAP459H6PLF HM1L44AAP000H6PLF
HM1L44ADP000H6PLF HM1L44LAP000H6PLF HM1L51AAP000H6PLF HM1L51DAP000H6PLF
HM1L51DDP000H6PLF HM1L51LAP000H6PLF HM1L51LDP000H6PLF HM1L51LDP367H6PLF
HM1L52ADP000H6PLF HM1L52DAP000H6PLF HM1L52LAP000H6PLF HM1L52LDP000H6PLF
HM1L52ZDP411H6PLF HM1L53AAP000H6PLF HM1L53ADP000H6PLF HM1L53DAP000H6PLF
HM1L53DDP000H6PLF HM1L53LAP000H6PLF HM1L53LDP000H6PLF HM1L54AAP000H6PLF
HM1L54ADP000H6PLF HM1L54CDP000H6PLF HM1L54DDP000H6PLF HM1L54LAP000H6PLF
HM1L54LDP000H6PLF HM1S41FER000H6PLF HM1S41FER400H6PLF HM1S41TRR000H6LF
HM1S42TRR000H6LF HM1S44TSR000H6LF HM1S51FER400H6PLF 85757-1201 85759-1101 85760-1101 85761-
1120 85761-1121 85761-1122 85761-1123 85761-1124 85763-1101 85763-1102 85763-1201
HM1L41BAP000H6PLF HM1L41BDP000H6PLF HM1L41ZAP329H6PLF HM1L42BAP000H6PLF
HM1L42LAP000H6PLF HM1L42LDP000H6PLF HM1L43LDP000H6PLF HM1L44DAP000H6PLF
HM1L51BDP000H6PLF HM1L51LFP000H6PLF HM1L51ZDP440H6PLF HM1L52AAP000H6PLF
HM1L53BDP000H6PLF HM1S43FER000H6PLF HM1S51FER000H6PLF HM1S52FER000H6PLF 58363-101LF
58360-101LF 58361-101LF HM1S52FER400H6PLF 85757-1301LF 85758-1201LF 85758-1301LF 85759-1301LF
HM1S41TRR400H6LF HM1S51TRR400H6PLF 85822-101LF 85758-1101LF 85761-1101LF HM1L41AAP000H6PLF
 HM1L51ADP000H6PLF 72017-112LF 85757-1101LF 85757-1103LF 85757-1201LF 85759-1101LF 85761-1025LF
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