Electronics

Voltage Regulation Module (VRM) Connectors

Product Facts

- Available in latch versions for VRMs up to 3 oz.
- Available with metal clip for VRMs over 3 oz.
- VRM connectors to support a wide variety of power supply standards
- Solder tail, press-fit and right-angle versions to support specific customer needs
- Up to 5.5 Amps per contact in typical VRM applications
- New materials are 94 V-0 rated with max. operating temperature of 125°C — VRM 10.x Series
- **■** Keying prevents plugging the wrong VRM into the connector

Materials

Housing PBT thermoplastic Contact High conductivity copper alloy

Technical Documents Product Specification 108-9039-1 & -2 **Qualification Test Report** 501-227-1 & -2



The new Voltage Regulation Module (VRM) family of connectors is designed to meet the needs of many existing and new power supply standards being developed. They are dual row card edge style connectors that are well known in the computer market. Currently the connectors are designed to carry up to 150 amps of DC power that's 300 amps total running through the connector. The connector is PCB mounted and there are versions available in press-fit or right-angle. The connectors have card retention either in



the form of a latch or a metal retention clip which is added after the VRM is in place.

Industry Applications

The VRM connector is controlled by various power supply standards. Current ones are EPS-1U, AD2D-VID, AD2D, VRM 8.5, VRM 9.0, VRM 9.1, VRM 10.0 and VRM 10.1. Many applications with a need to transmit high power from board to board can benefit from this connector and additional customer specific applications are developing.

VRM Selection Chart

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	۱ .	۱ _L 0.0	۱ _L 0.	\ L >0	۱ _۲ , ۲	\ 3 7	. 1
Solder	6489165-1	6489930-2	6489930-2	1651826-1	_	_	_
Press-Fit	6489651-1	_	— 17	'66436-1		- –	
Surface-Mount	_	_	— 1766	336-1 17667	735-2 17613	347-2 1761	1122-1

All part numbers are RoHS compliant.

tcag

C. Aiga: 52-55-1106-0803

UK: 44-(0)8002-67666

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Power contacts x 18

Signal contacts x 20

Mating board thickness -0.093 "

Reference Part Numbers:

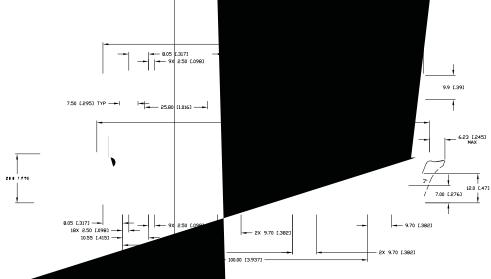
Solder tail, 4.5 mm (0.18")

Part Number 1766442-1

Part Number 1651864-1

Compliant Press-fit 3.8 mm (0.15")

Part Number 1766443-1



2103-6000 Ca**a**da: 1-905-470-4425 é eplo

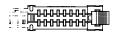
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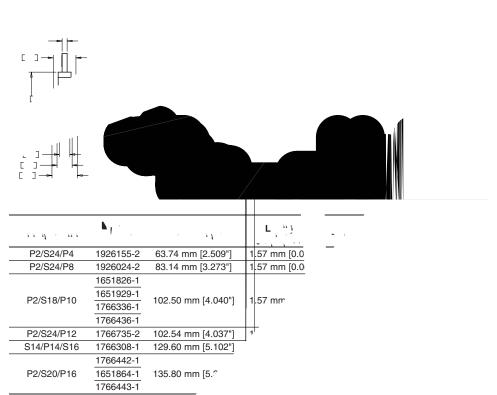
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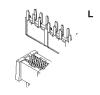




Application without latches and custom lay your local sales engineer.

OTHER Applications

A mating blade that allows certain Mini CROWN EDGE Connector configurations to be used as a stacked board power interconnection device is also available.



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Custom Layout

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