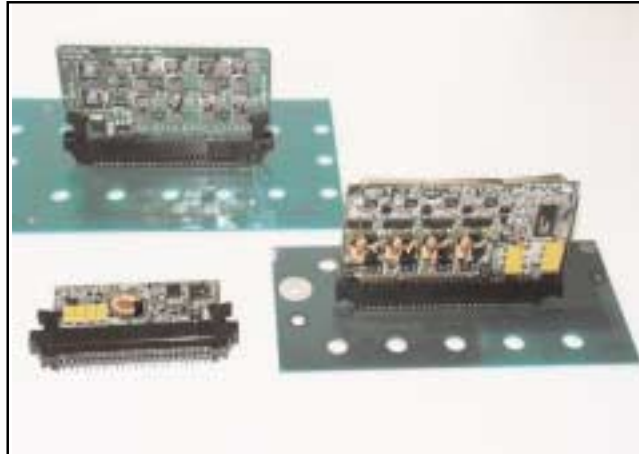


VRM (Voltage Regulation Module) Connector

DESCRIPTION

02/03 1309103

The new Voltage Regulation Module family of connectors is designed to meet the needs of the many 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 from 20 up to 80 amps of current. 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 VMR 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. Any application with a need to transmit high power from

board to board can benefit from this connector and additional customer specific applications are developing.

KEY FEATURES

- 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.
- Keying prevents plugging the wrong VRM in to the connector.

FOR MORE INFORMATION

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new product

VRM (Voltage Regulation Module) Connector



VRM Connector Part Number Matrix

Application	Power Supply Standard									
	AD2D-VID	AD2D - 5 volts	AD2D - 12 volts	VRM 8.5, 12 volt	EPS-1U	VRM 9.0, 12 volt	VRM 9.0, 48 volt	VRM 9.05, 12 Volt	VRM 9.1, 12 volt	VRM 9.1, 48 volt
Max Current ⁴ Output - Spec	30 amps	20 amps	8.3 amps	44 amps	22 amps	68 amps	68 amps	80 amps	80 amps	80 amps
Max Current ⁴ per Contact	3.15 amps	3.15 amps	3.15 amps	3.15 amps	3.58 amps	3.58 amps	3.58 amps	4.21	4.21 amps	4.21 amps
Connector Size	35 pair	35 pair	35 pair	25 pair	31 pair	31 pair	31 pair	31 pair	31 pair	31 pair
Key Located between slots	23, 24	3, 4	5, 6	17, 18	11, 12	11, 12	4, 5	11, 12	12, 13	4, 5
Omit Pin for Keying	4	5	67	44	6	6	6	6	6	6
Solder Tail Connectors										
Standard Conn. without Latch	145539-4	145539-3	145539-5	n.a.	1364999-1	1364999-1	n.a.	n.a.	n.a.	n.a.
Conn. with Clip ¹ #1364124-1	n.a.	n.a.	n.a.	n.a.	1364125-1	1364125-1	1364125-2	1364125-6	1489162-1	1489162-2
Conn. with Old Style Latch ²	1-145459-2	1-145459-1	1-145459-3	145432-2	145432-3	145432-3	145432-4	n.a.	n.a.	n.a.
Conn. with New Latch ² & Supports	1364700-6	1364700-5	1364700-7	1364666-2	1364666-1	1364666-1	n.a.	1489165-3	1489165-1	1489165-2
Press Fit Connectors										
Standard Conn without Latch	n.a.	n.a.	n.a.	n.a.	145269-2	n.a.	n.a.	n.a.	n.a.	n.a.
Conn. with Clip ¹ #1364124-1	n.a.	n.a.	n.a.	n.a.	1364664-1 ³	1364664-1 ³	n.a.	1489652-3 ³	1489652-1 ³	1489652-2 ³
Conn. with Old Style Latch ²	1364271-3	1364271-2	1364271-4	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Conn. with Latch ² & Supports	1489648-2	1489648-1	1489648-3	1489649-1	1489650-1 ³	1489650-1 ³	n.a.	1489651-3 ³	1489651-1 ³	1489651-2 ³

Notes:

1. Metal clip, part number 1364124-1, is recommended for use with modules weighing up to 6 oz and is sold separately.
2. Plastic Latch is recommended for use with modules weighing up to 3 oz.
3. Contact TYCO Engineering for information on connector insertion tooling.
4. Maximum currents achieved currents minimum cooling air flow of 400 LFM.
Consult Tyco Electronics product specification for specific performance information.

MATERIALS

Housing; PBT thermoplastic
Contact; High conductivity copper alloy.

TECHNICAL DOCUMENTS

- Product Specification: 108-9039-1 & 2
- Qualification Test Report - 501-227-1 &-2