



VMIVME-M03 THROUGH VMIVME-M21 Monolithic Backplanes

- P1 and P2 connectors mounted on single backplane
- Monolithic construction ensures ground plane integrity
- Optimized signal transmission
 - Low capacitive loading
 - Improved propagation speed
 - Stripline matched to microstrip
 - Low crosstalk
 - Improved noise margins
- in-board terminations
 - Shortest propagation path
 - Lowest terminator induced crosstalk
 - Avoids performance degradation inherent in plug-on terminators

PRODUCT OVERVIEW — VMEbus J1/J2

Backplane — M Series. Among the many features of the VMIC family of enhanced monolithic VME J1/J2 backplanes are enhanced signal transmission and in-board terminations. Controlled impedance, improved propagation speed, and low crosstalk result from trace routing and layer construction techniques which optimize these important electrical qualities.

The in-board termination circuit inside the first and last connectors provides the shortest propagation path and lowest terminator induced crosstalk available for 16-, 24-, 32-, and 64-bit applications using 3 to 21 slots.

Bandwidth: 50 MHz

Effective Signal Impedance: $50 \Omega \pm 5$ percent

Signal Line Resistance: $< 1 \Omega$

Backplane Construction: Multilayer, strip line, fully compliant with VME Rev. C1 specification. Nominally 0.128-inch thick, constructed of epoxy glass laminate.

Termination: $330 \Omega / 470 \Omega$ voltage dividers at both ends giving a Thevenin equivalent of 194Ω at 2.94 V.

DIN Connectors: Conform to DIN 41612/part 5. The J1 area has solder-tail connectors while the J2 area connectors have gold-plated, three-level wire wrap pins.

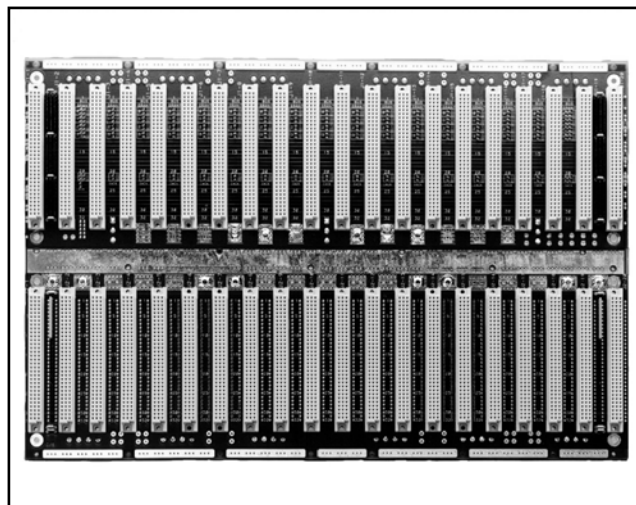
Maximum Voltage Drop: 21-slot J1/J2 monolithic: ≤ 20 mV

Current Rating Per Connector:

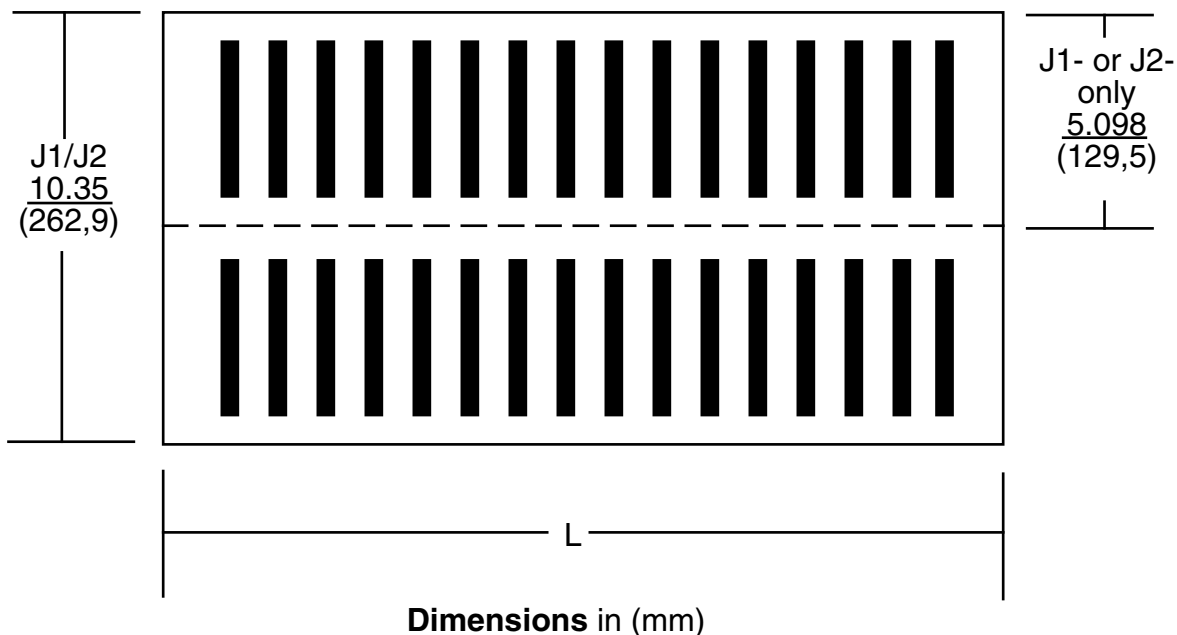
Power Bolt:	70 A
Power Tap:	12 A
Faston Power Tap:	12 A

TRADEMARKS

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Ordering Options
January 14, 1994 800-000053-000 A
VMIVME-MXX
XX = Number of Slots 03 to 21 (Note: 11, 13, 15, and 17 slots are not available)
For Ordering Information, Call: 1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859 E-mail: info@vmic.com Web Address: www.vmic.com Copyright © August 1993 by VMIC Specifications subject to change without notice.



No. of Slots	L	No. of Slots	L
3	2.34 (59,44)	12	9.54 (242,39)
4	3.14 (79,76)	14	11.14 (282,96)
5	3.94 (100,15)	16	12.74 (323,67)
6	4.74 (100,42)	18	14.10 (358,2)
7	5.54 (140,72)	19	15.14 (384,63)
8	6.34 (161,04)	20	15.94 (409,95)
9	7.14 (181,43)	21	16.74 (425,27)
10	7.94 (201,68)		