



VMICPCI-P302

CompactPCI Backplane with Screw Terminal Power Connection

- High performance, low noise
- Designed to meet the latest PICMG® specifications
- PICMG 2.1 hot swap compatible
- Available in 5 or 3.3 V switchable V (I/O) operating voltages

INTRODUCTION — We offer high-performance CompactPCI® backplanes compatible with the CompactPCI 2.0 R 2.1 hot swap specification. Multiple power planes and ground planes provide a low noise backplane.

PHYSICAL/ENVIRONMENTAL

6U Height: 10.317 in. + 0 / -.012 in.
(262.05 mm + 0 / - 0.3 mm)

Length:

Five-Slot: 3.961 in. + 0 / -.012 in.
Eight-Slot: 6.361 in. + 0 / -.012 in.

Backplane Material: FR4

Construction: 10-layer board

Temperature Ranges:

Operation: -40 to 85 °C
Storage: -40 to 85 °C

Flammability Rating: UL94-V0

Shock and Vibration: Designed to meet industrial specifications

Regulatory: Designed to meet UL, CSA, CE requirements

ELECTRICAL

Backplane Connectors: 4 HP (0.8 in.) spacing

Connector Pitch: 4 HP (0.8 in.) spacing

Plating: Flash gold over palladium nickel finish or equivalent

Temperature Range: -55 to 125 °C

Mechanical Durability: 250 mating cycles

Contact Material (m/f): Bronze

Molded Housing: Polyester glass-filled acc.
UL94V-0

Insulation Resistance: acc. IEC 512-5

Signal Contact: Minimum 104 mΩ
Shield Contact: Minimum 104 mΩ

Resistance for All Signal Lines: < 1 Ω

Transmission Rate: 132/264 Mbyte/s (peak) for 32-/64-bit transmissions

Characteristic Impedance: 65 Ω ±10%

PHOTO NOT AVAILABLE

Mating Force Per Pin:

Signal Contact: 0.75 N minimum (.17 lb)
Shield Contact: 1 N maximum (.22 lb)

Withdrawal Force Per Pin:

Signal Contact: 0.15 N minimum (.033 lb)
Shield Contact: 0.15 N minimum (.033 lb)

CONNECTORS — Screw terminal power connectors rear accessible, J1-J5 CompactPCI connectors front, J3-J5 connectors rear.

TRADEMARKS

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Ordering Options							
August 5, 1999 800-650390-000 A	A	B	C	-	D	E	F
VMICPCI-P302	-	0		-			
A = Size 0 = 6U							
B = Operating Voltages 0 = 5 V Keys 1 = 3.3 V Keys							
C = Number of Slots 0 = Reserved 1 = Reserved 2 = Reserved 3 = Reserved 4 = Reserved 5 = 5 Slots 6 = Reserved 7 = Reserved 8 = 8 Slots							
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 © May 1999 by VMIC Specifications subject to change without notice.							