

# Monolithic J1/J2 Backplane Specifications

## Ordering Options

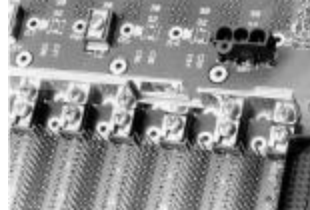
Four configurations for power connectors: Power Bugs ("P" Series). Mate-N-Lock ("M" Series), combination of Mate-N-Lock and Power Bugs ("S" Series) and no connectors.

I/O mounting area adjacent to J1 connectors: with gold-plated, double-tailed (accessible from both sides of backplane) wire-wrap pins installed at factory, or with no pins installed.

Decoupling capacitors: factory-installed at power to ground positions only, at ground to chassis positions only, at both power to ground and ground to chassis positions, or with no pins installed.

Backplanes

## BUS BAR



BB21S (or 1600041 type kit) mounts with power bug hardware

## Layer Designation

Power	Layer 1	2oz.
Ground	Layer 2	1 oz.
Signal	Layer 3	1 oz.
Ground	Layer 4	1 oz.
Signal	Layer 5	1 oz.
Ground	Layer 6	1 oz.
Signal	Layer 7	1 oz.
Ground	Layer 8	2 oz.

## Specifications

<b>Data Transfer Rate:</b>	Up to 40 Mbytes/Sec.
<b>Cross Talk:</b>	
Signal to Signal:	180mV due to six closest lines in simultaneous transition using AS type drivers
Power to Signal	4 mV per volt of power plane noise
<b>Delay:</b>	25 ns (AS type driver to AS type receiver)
<b>Overshoot:</b>	260 mV max
<b>Voltage Rating:</b>	100 Volts
<b>Altitude Rating:</b>	10,000 feet
<b>Operating Temperature:</b>	0° - 60°C
<b>Connector Type:</b>	Press-fit DIN 41612 Class II
<b>Housing Material:</b>	Thermoplastic polyester 94V-O UL rated

<b>Insertion Force:</b>	36 pounds typical (3.0 oz. per pin)
<b>Withdrawal Force:</b>	24 pounds typical (2.0 oz. per pin)

## Power Rating

Voltage	Per Slot Rating	
	@ 25°C	to 60°C
+5V	9.0 Amps	6A
+12V	1.5 Amps	1A
-12V	1.5 Amps	1A

## VME Monolithic J1/J2 Backplane Ordering Information

VME BP 10 - P 0 0

- No. of Slots**
- 03 = 3-slot VME J1 and J2
  - 05 = 5-slot VME J1 and J2
  - 07 = 7-slot VME J1 and J2
  - 12 = 12-slot VME J1 and J2
  - 14 = 14-slot VME J1 and J2
  - 17 = 17-slot VME J1 and J2
  - 20 = 20-slot VME J1 and J2
  - 21 = 21-slot VME J1 and J2

- Connector Options**
- = Standard
  - A = Auto Bus Grant

- Power Connectors**
- O = No Connectors
  - M = Mate-N-Lok
  - P = Power Bugs
  - S = Mate-N-Lok & Power Bugs

- Pins for I/O to J2**
- O = No pins
  - 1 = Pins installed

- Capacitors**
- 0 = No Caps
  - 1 = Caps installed at power to ground positions only
  - 2 = Caps installed at ground to chassis positions only
  - 3 = Caps installed at both power & ground positions

Part No.	Slots	Width	Length
VMEBP3P00	3	10.32" (262,13mm)	2.34" (59.44mm)
VMEBP5P00	5	10.32" (262,13mm)	3.94" (100mm)
VMEBP10P00	10	10.32" (262,13mm)	7.94" (201.78mm)
VMEBP12P00	12	10.32" (262,13mm)	9.54" (242.4mm)
VMEBP14P00	14	10.32" (262,13mm)	11.14" (282mm)
VMEBP16P00	16	10.32" (262,13mm)	12.61" (320.3mm)
VMEBP17P00	17	10.32" (262,13mm)	13.40" (340.4mm)
VMEBP20P00	20	10.32" (262,13mm)	15.94" (404mm)
VMEBP21P00	21	10.32" (262,13mm)	16.74" (425.3mm)

## Accessories

Part Number	Description
<b>Shroud</b> 79900004 (white) 79900003 (black)	Shroud for Din connector. Optional for adding J2 connector. (Shrouds installed on first and last connector only)
<b>Power Bug Number</b> 78510002	Power Bug and #6-32 Screw (SC06032#)
<b>CA-3UM</b>	Cable, pre-made for 3-pin Mate-N-Lok connector. Contains 36" of 14 ga. wire and mating connector.
<b>CA-4UM</b>	Cable, pre-made for 4-pin Mate-N-Lok connector. Contains 48" of 14 ga. wire and mating connector.
<b>Bus Bar</b> BBXXS	Insert number of slots - Example: BB21S