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| REVISIONS |             |          |      |
|-----------|-------------|----------|------|
| REV       | DESCRIPTION | DATE     | ENGR |
| C         | ECN# 3050   | 12/15/10 | ECD  |

D

D

C

C

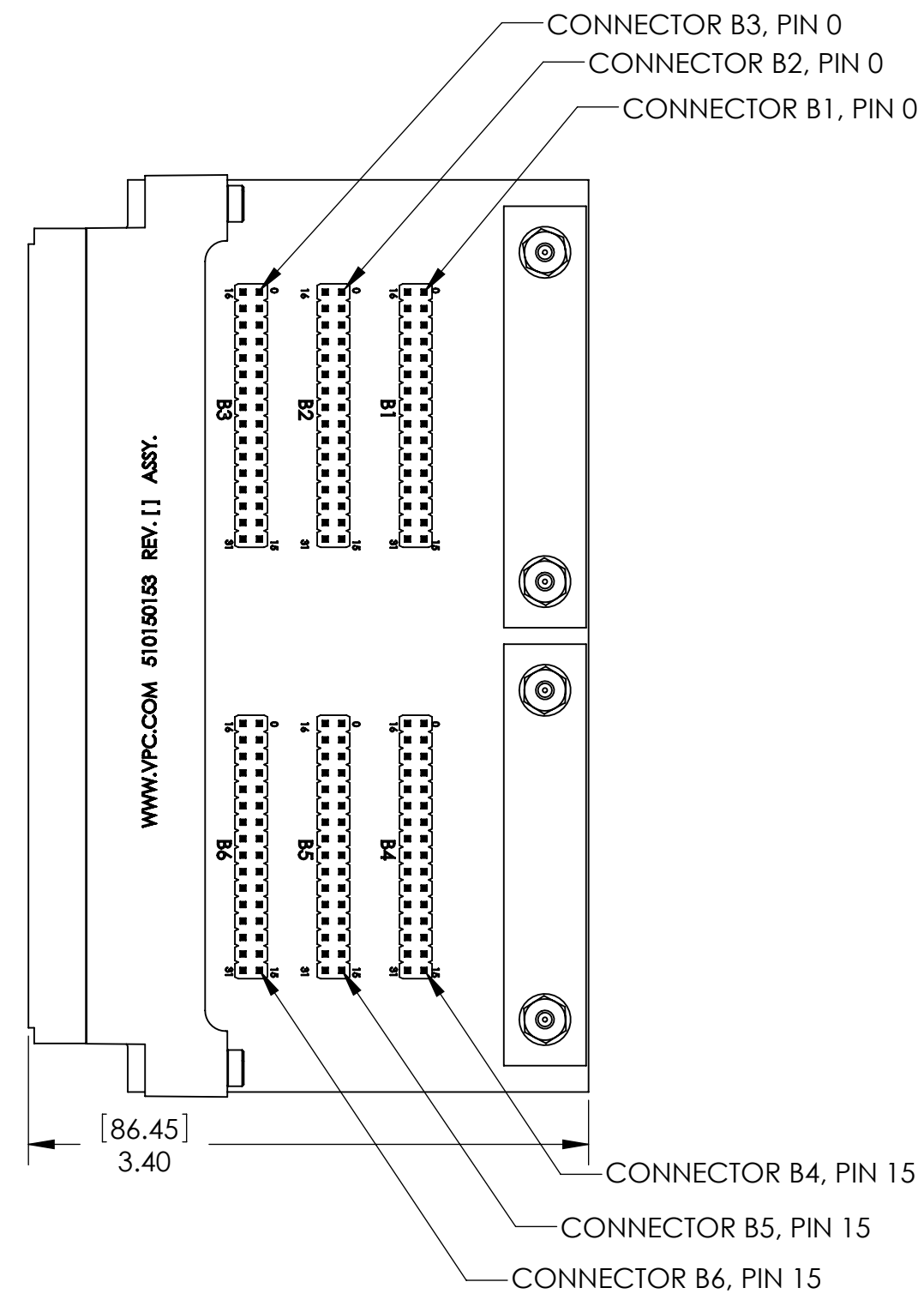
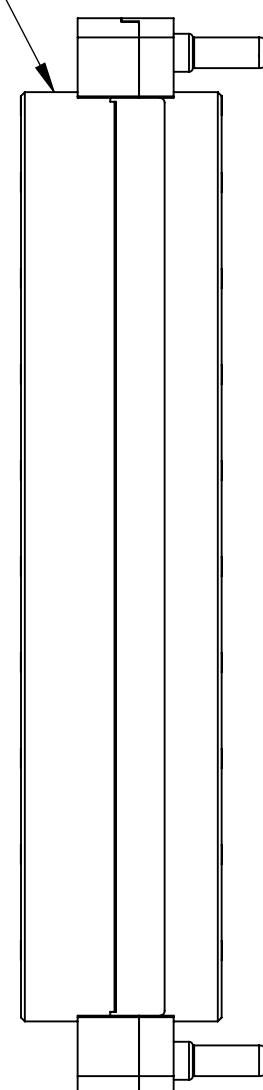
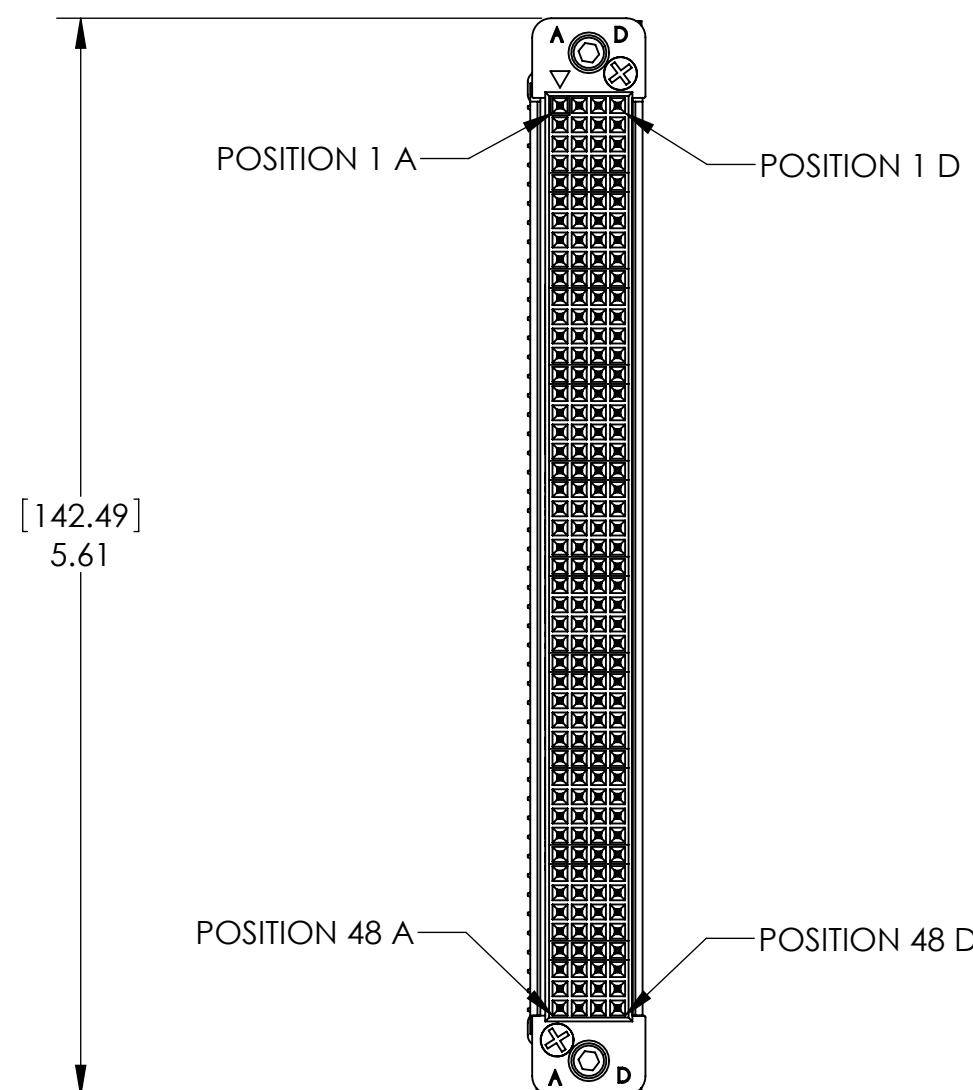
B

B

A

A

192 POSITION QUADRAPADDLE MODULE  
VPC PART # 510 150 130



6. TECHNICAL DATA:

MATERIAL : BOARD FR4 w/SOLDEMASK  
VPC CONNECTOR BLACK LCP w/GOLD PLATED BERYLIUM COPPER CONTACTS  
BOARD CONNECTOR BLACK LCP w/GOLD PLATED PHOSPHOR BRONZE POSTS  
CURRENT: 2 AMPERE CONTINUOUS @150V RMS

5. ITEMS SHIPPED LOOSE, NOT SHOWN

- (QTY 1) 3/32" BALL END HEX L WRENCH
- (QTY 2) 4-40X.13" THREADED STANDOFF
- (QTY 2) 4-40X1.25" SOCKETHEAD CAP SCREW
- (QTY 2) 4-40X.31" THREADED STANDOFF

4. SIX 32 PIN DOUBLE ENDED RIBBON CABLES, VPC PART # 515 109 162, INCLUDED AND ATTACHED TO THE PCB

3. THIS PCB ADAPTER WAS DESIGNED WITH A LEFT MOUNTED PC BOARD FOR OPTIMAL CABLE MANAGEMENT  
DO NOT MOUNT BESIDE A PCB ADAPTER WITH A RIGHT MOUNTED PC BOARD

2. THIS PCB ADAPTER WILL ACCOMMODATE ONE OR TWO NATIONAL INSTRUMENTS TB-2634 TERMINAL BLOCKS  
USE MATRIX 1 CONNECTORS - B1, B2 AND B3 FOR FIRST TERMINAL BLOCK  
USE MATRIX 2 CONNECTORS - B4, B5 AND B6 FOR SECOND TERMINAL BLOCK

1. FOR APPLICATION USE & CARE INFORMATION CONSULT VPC USERS GUIDE @WWW.VPC.COM

NOTES:

|  |           |           |              |
|--|-----------|-----------|--------------|
| <b>CUSTOMER DRAWING</b>  |           |           |              |
| <b>VIRGINIA PANEL CORPORATION</b><br>WWW.VPC.COM                                       |           |           |              |
| PCB ADAPTER, RECEIVER, 192 POSITION<br>QUADRAPADDLE TO NI PXI-2529 WITH SIX 20" CABLES |           |           |              |
| DIMENSIONS ARE SHOWN AS:   | SIZE      | CAGE CODE | DWG. NO.     |
| [MILLIMETERS]  | C         | 18117     | 510150153    |
| [INCHES]   |           |           |              |
| SCALE: 1:1   | 510150153 | 4/27/06   | SHEET 1 OF 2 |

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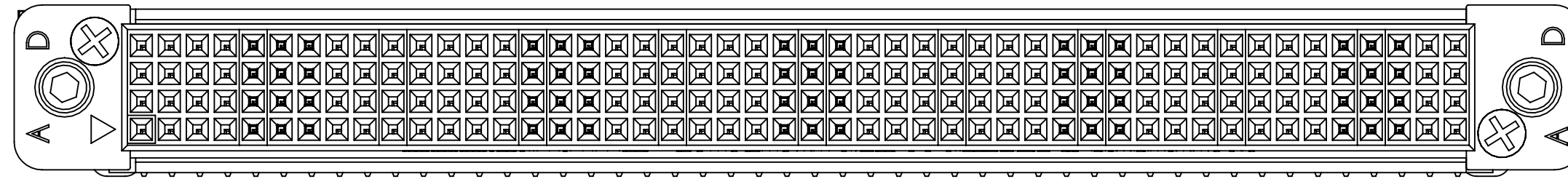
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| SIGNAL TRACES |           |            |           |            |           |            |           |
|---------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| VPC Module    | Connector | VPC Module | Connector | VPC Module | Connector | VPC Module | Connector |
| A1 >          | B2-16     | A25 >      | B3-24     | B1 >       | B2-0      | B25>       | B3-8      |
| A2 >          | B2-17     | A26 >      | NC        | B2 >       | B2-1      | B26>       | NC        |
| A3 >          | B2-18     | A27 >      | B3-26     | B3 >       | B2-2      | B27 >      | B3-10     |
| A4 >          | B2-19     | A28 >      | NC        | B4 >       | B2-3      | B28 >      | NC        |
| A5 >          | B2-20     | A29 >      | B3-28     | B5 >       | B2-4      | B29 >      | B3-12     |
| A6 >          | B2-21     | A30 >      | NC        | B6 >       | B2-5      | B30 >      | NC        |
| A7 >          | B2-22     | A31 >      | B3-30     | B7 >       | B2-6      | B31 >      | B3-14     |
| A8 >          | B2-23     | A32 >      | NC        | B8 >       | B2-7      | B32 >      | NC        |
| A9 >          | B2-24     | A33 >      | B5-16     | B9 >       | B2-8      | B33 >      | B5-0      |
| A10 >         | B2-25     | A34 >      | B5-17     | B10 >      | B2-9      | B34 >      | B5-1      |
| A11 >         | B2-26     | A35 >      | B5-18     | B11 >      | B2-10     | B35 >      | B5-2      |
| A12 >         | B2-27     | A36 >      | B5-19     | B12 >      | B2-11     | B36 >      | B5-3      |
| A13 >         | B2-28     | A37 >      | B5-20     | B13 >      | B2-12     | B37 >      | B5-4      |
| A14 >         | B2-29     | A38 >      | B5-21     | B14 >      | B2-13     | B38 >      | B5-5      |
| A15 >         | B2-30     | A39 >      | B5-22     | B15 >      | B2-14     | B39 >      | B5-6      |
| A16 >         | B2-31     | A40 >      | B5-23     | B16 >      | B2-15     | B40 >      | B5-7      |
| A17 >         | B3-16     | A41 >      | B5-24     | B17 >      | B3-0      | B41 >      | B5-8      |
| A18 >         | NC        | A42 >      | B5-25     | B18 >      | NC        | B42 >      | B5-9      |
| A19 >         | B3-18     | A43 >      | B5-26     | B19 >      | B3-2      | B43 >      | B5-10     |
| A20 >         | NC        | A44 >      | B5-27     | B20 >      | NC        | B44 >      | B5-11     |
| A21 >         | B3-20     | A45 >      | B5-28     | B21 >      | B3-4      | B45 >      | B5-12     |
| A22 >         | NC        | A46 >      | B5-29     | B22 >      | NC        | B46 >      | B5-13     |
| A23 >         | B3-22     | A47 >      | B5-30     | B23 >      | B3-6      | B47 >      | B5-14     |
| A24 >         | NC        | A48 >      | B5-31     | B24 >      | NC        | B48 >      | B5-15     |

| SIGNAL TRACES |           |            |           |            |           |            |           |
|---------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| VPC Module    | Connector | VPC Module | Connector | VPC Module | Connector | VPC Module | Connector |
| C1 >          | B1-16     | C25>       | B6-24     | D1 >       | B1-0      | D25>       | B6-8      |
| C2 >          | B1-17     | C26>       | NC        | D2 >       | B1-1      | D26>       | NC        |
| C3 >          | B1-18     | C27 >      | B6-26     | D3 >       | B1-2      | D27 >      | B6-10     |
| C4 >          | B1-19     | C28 >      | NC        | D4 >       | B1-3      | D28 >      | NC        |
| C5 >          | B1-20     | C29 >      | B6-28     | D5 >       | B1-4      | D29 >      | B6-12     |
| C6 >          | B1-21     | C30 >      | NC        | D6 >       | B1-5      | D30 >      | NC        |
| C7 >          | B1-22     | C31 >      | B6-30     | D7 >       | B1-6      | D31 >      | B6-14     |
| C8 >          | B1-23     | C32 >      | NC        | D8 >       | B1-7      | D32 >      | NC        |
| C9 >          | B1-24     | C33 >      | B4-16     | D9 >       | B1-8      | D33 >      | B4-0      |
| C10 >         | B1-25     | C34 >      | B4-17     | D10 >      | B1-9      | D34 >      | B4-1      |
| C11 >         | B1-26     | C35 >      | B4-18     | D11 >      | B1-10     | D35 >      | B4-2      |
| C12 >         | B1-27     | C36 >      | B4-19     | D12 >      | B1-11     | D36 >      | B4-3      |
| C13 >         | B1-28     | C37 >      | B4-20     | D13 >      | B1-12     | D37 >      | B4-4      |
| C14 >         | B1-29     | C38 >      | B4-21     | D14 >      | B1-13     | D38 >      | B4-5      |
| C15 >         | B1-30     | C39 >      | B4-22     | D15 >      | B1-14     | D39 >      | B4-6      |
| C16 >         | B1-31     | C40 >      | B4-23     | D16 >      | B1-15     | D40 >      | B4-7      |
| C17 >         | B6-16     | C41 >      | B4-24     | D17 >      | B6-0      | D41 >      | B4-8      |
| C18 >         | NC        | C42 >      | B4-25     | D18 >      | NC        | D42 >      | B4-9      |
| C19 >         | B6-18     | C43 >      | B4-26     | D19 >      | B6-2      | D43 >      | B4-10     |
| C20 >         | NC        | C44 >      | B4-27     | D20 >      | NC        | D44 >      | B4-11     |
| C21 >         | B6-20     | C45 >      | B4-28     | D21 >      | B6-4      | D45 >      | B4-12     |
| C22 >         | NC        | C46 >      | B4-29     | D22 >      | NC        | D46 >      | B4-13     |
| C23 >         | B6-22     | C47 >      | B4-30     | D23 >      | B6-6      | D47 >      | B4-14     |
| C24 >         | NC        | C48 >      | B4-31     | D24 >      | NC        | D48 >      | B4-15     |

NC= NO CONNECT



|     | CONNECTOR B1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CONNECTOR B6 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    | CONNECTOR B4 |    |    |    |    |    |    |    |     |  |  |  |  |  |  |  |
|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|--------------|----|----|----|----|----|----|----|-----|--|--|--|--|--|--|--|
| D1- | 16           | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 0            | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24           | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D48 |  |  |  |  |  |  |  |
| C1+ | 16           | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 0            | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24           | 25 | 26 | 27 | 28 | 29 | 30 | 31 | C48 |  |  |  |  |  |  |  |
| B1- | 0            | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 0            | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8            | 9  | 10 | 11 | 12 | 13 | 14 | 15 | B48 |  |  |  |  |  |  |  |
| A1+ | 0            | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 0            | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8            | 9  | 10 | 11 | 12 | 13 | 14 | 15 | A48 |  |  |  |  |  |  |  |

CONNECTOR B2                      CONNECTOR B3                      CONNECTOR B5

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|      |           |                  |     |
|------|-----------|------------------|-----|
| SIZE | CAGE CODE | DWG. NO.         | REV |
| C    | 18117     | <b>510150153</b> | C   |

SCALE: 2:1 | 510150153 | 4/27/06 | SHEET 2 OF 2

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