

**GND tie**  
R1 10k 3W 750V DNI

**J207 Busbar**  
**GND\_Case**  
 18 GND\_Case\_1  
 17 GND\_Case\_2  
 16 GND\_Case\_3  
 15 GND\_Case\_4  
 14 GND\_Case\_5  
 13 GND\_Case\_6  
 12 GND\_Case\_7  
 11 GND\_Case\_8  
 10 GND\_Case\_9  
 9 GND\_Case\_10  
 8 GND\_Case\_11  
 7 GND\_Case\_12  
 6 GND\_Case\_13  
 5 GND\_Case\_14  
 4 GND\_Case\_15  
 3 GND\_Case\_16  
 2 GND\_Case\_17  
 1 GND\_Case\_18

**J202 Busbar**  
**3.3Vret**  
 18 3.3Vret\_1  
 17 3.3Vret\_2  
 16 3.3Vret\_3  
 15 3.3Vret\_4  
 14 3.3Vret\_5  
 13 3.3Vret\_6  
 12 3.3Vret\_7  
 11 3.3Vret\_8  
 10 3.3Vret\_9  
 9 3.3Vret\_10  
 8 3.3Vret\_11  
 7 3.3Vret\_12  
 6 3.3Vret\_13  
 5 3.3Vret\_14  
 4 3.3Vret\_15  
 3 3.3Vret\_16  
 2 3.3Vret\_17  
 1 3.3Vret\_18

**J201 Busbar**  
**3.3V+**  
 18 3.3V+\_1  
 17 3.3V+\_2  
 16 3.3V+\_3  
 15 3.3V+\_4  
 14 3.3V+\_5  
 13 3.3V+\_6  
 12 3.3V+\_7  
 11 3.3V+\_8  
 10 3.3V+\_9  
 9 3.3V+\_10  
 8 3.3V+\_11  
 7 3.3V+\_12  
 6 3.3V+\_13  
 5 3.3V+\_14  
 4 3.3V+\_15  
 3 3.3V+\_16  
 2 3.3V+\_17  
 1 3.3V+\_18

**450V Input**  
 R2 20M 0.5W 3.5kV  
 450V+  
 450Vret  
 J208 1-770873-1

Pin 1 on bottom

**J209 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J210 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J211 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J212 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J213 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J214 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J215 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J216 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

**J217 CON24A**  
 1 450V+  
 2 450Vret  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11 1112  
 12 1314  
 13 1516  
 14 1718  
 15 1920  
 16 2122  
 17 2324

Indicator

DCM

Card Slot Connectors

**J205**  
 1  
 2  
 1-770872-1

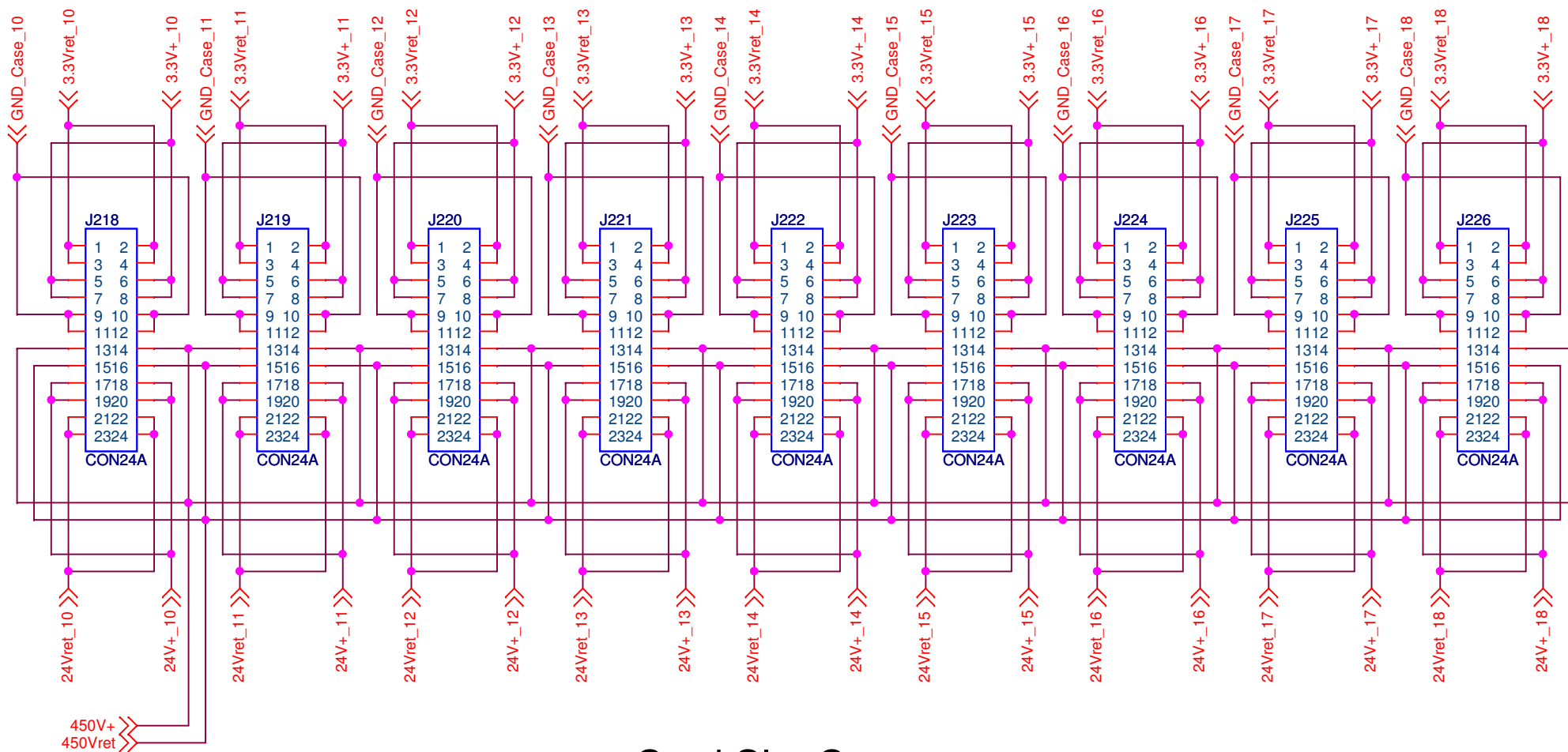
24V DCM Input

**J204 Busbar**  
**24Vret**  
 18 24Vret\_1  
 17 24Vret\_2  
 16 24Vret\_3  
 15 24Vret\_4  
 14 24Vret\_5  
 13 24Vret\_6  
 12 24Vret\_7  
 11 24Vret\_8  
 10 24Vret\_9  
 9 24Vret\_10  
 8 24Vret\_11  
 7 24Vret\_12  
 6 24Vret\_13  
 5 24Vret\_14  
 4 24Vret\_15  
 3 24Vret\_16  
 2 24Vret\_17  
 1 24Vret\_18

**J203 Busbar**  
**24V+**  
 18 24V+\_1  
 17 24V+\_2  
 16 24V+\_3  
 15 24V+\_4  
 14 24V+\_5  
 13 24V+\_6  
 12 24V+\_7  
 11 24V+\_8  
 10 24V+\_9  
 9 24V+\_10  
 8 24V+\_11  
 7 24V+\_12  
 6 24V+\_13  
 5 24V+\_14  
 4 24V+\_15  
 3 24V+\_16  
 2 24V+\_17  
 1 24V+\_18

⊗ = Do Not Place

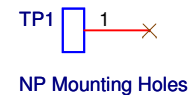
University of Virginia Physics Dept. 382 McCormick Rd, Charlottesville, VA 22904		
Title <b>PDB Backplane Left Half for NOVA Project</b>		
Size A	Drawn By Stephen Goadhouse, 434-982-5594, sgd6h@virginia.edu	Rev 3.1
Date: Tuesday, December 15, 2009	Sheet 1	of 2



## Card Slot Connectors

### Trace Current Capacity

3.3V+	8A (per slot)
24V+	4A (per slot)
24V+ DCM	4A
450V+	1mA



University of Virginia Physics Dept.  
382 McCormick Rd, Charlottesville, VA 22904

Title  
**PDB Backplane Right Half for NOvA Project**

Size A	Drawn By Stephen Goadhouse, 434-982-5594, sgd6h@virginia.edu	Rev 3.1
-----------	---	------------

Date: Tuesday, December 15, 2009 Sheet 2 of 2