**Layout Guidelines for 31-0008 Rev 1**

1. Reference files
   1. Mechanical drawing: 31-0008-1\_Mech.PDF
   2. Schematic: 30-0008-1\_Schematic.pdf
   3. Netlist: 31-0008-1\_NetList.asc
   4. BOM: 33-008-1\_BOM.xlsx
2. The rough dimensions for the board are 3.93” X 5.91”.
3. All connectors are to be placed on the “component” side of the board.
4. Connectors J5, J6 and J7 are to be located per the mechanical drawing.
5. Guidance for the location of J1, J2, J3, J4 and the relays is given in the mechanical drawing, but there are no fixed requirements.
6. J8 and all other components may be placed at the designer’s discretion.
7. If the designer deems it necessary, components may be placed on both sides of the board, but the height restriction for the backside is 0.25”
8. This should be a 4-layer board with an inner layer ground plane.
9. The max current on the +27.6V rail will be <300mA. The majority of this current will be used by the +12V rail.
10. The max current on the -27.6V rail will be <125mA.
11. The relay coils only draw 5mA and the relays themselves carry less than 1mA.
12. There are no impedance requirements as this is a low frequency application.