|  |  |  |  |
| --- | --- | --- | --- |
| Current | Voltage from op amp (1) | (2) | (3) |
| 0 | 2.36 | 2.406 | 3.278 |
| 0.5 | 2.33 | 2.371 | 3.207 |
| 1 | 2.30 | 2.340 | 3.138 |
| 1.5 | 2.29 | 2.321 | 3.068 |
| 2 | 2.28 | 2.310 | 2.999 |
| 2.5 | 2.27 | 2.305 | 2.929 |
| 3 |  | 2.302 | 2.859 |
| 3.5 |  |  | 2.790 |
| 4 |  |  | 2.720 |
| 4.5 |  |  | 2.650 |
| 5 |  |  | 2.581 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vlogic | R2 | R20 | R21 | R68 | Vo/Vi-bias | Vbias | Vi | Vo | 30 and 20 A boards |
| 3.3 | 10 | 18 | 10 | 22 | -2.2 | 6.788571 | 2.97 | 0.254571 |
| 3.3 | 10 | 18 | 10 | 22 | -2.2 | 6.788571 | 1.65 | 3.158571 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vlogic | R2 | R20 | R21 | R68 | Vo/Vi-bias | Vbias | Vi | Vo | 5A board, Using 20A Hall-effect sensor |
| 3.3 | 10 | 12 | 4.7 | 39 | -8.29787 | 16.73617 | 1.98 | 0.306383 |
| 3.3 | 10 | 12 | 4.7 | 39 | -8.29787 | 16.73617 | 1.65 | 3.044681 |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

H

3v3 20A board

After trial 2. I re-soldered on the op amp. Realized one pad needed more solder. Worked fine afterwards.

3v3 30A board

|  |
| --- |
| Current |
| 0 |
| 0.5 |
| 1 |
| 1.5 |
| 2 |
| 2.5 |
| 3 |
| 3.5 |
| 4 |
| 4.5 |
| 5 |

|  |  |
| --- | --- |
| Current | Voltage from op-amp |
| 0 | 3.207 |
| 0.5 | 3.161 |
| 1 | 3.116 |
| 1.5 | 3.071 |
| 2 | 3.026 |
| 2.5 | 2.981 |
| 3 | 2.935 |
| 3.5 | 2.890 |
| 4 | 2.844 |
| 4.5 | 2.797 |
| 5 | 2.752 |

Had issues getting power supply leads to work. Tested with multimeter got 1<r<1Mohm

Make sure banana plugs are in securely sometimes I had to wiggle them in.

|  |  |
| --- | --- |
| Current | Voltage from op-amp |
| 0 | 3.207 |
| 0.5 | 3.161 |
| 1 | 3.116 |
| 1.5 | 3.071 |
| 2 | 3.026 |
| 2.5 | 2.981 |
| 3 | 2.935 |
| 3.5 | 2.890 |
| 4 | 2.844 |
| 4.5 | 2.797 |
| 5 | 2.752 |

3v3 5A

|  |  |  |
| --- | --- | --- |
| Current | Voltage from op-amp | R68= 39  R21 = 4.7 |
| 0 | 3.298 | 3.228 |
| 0.5 | 3.195 | 2.946 |
| 1 | 2.882 | 2.684 |
| 1.5 | 2.569 | 2.422 |
| 2 | 2.255 | 2.162 |
| 2.5 | 1.948 | 1.903 |
| 3 | 1.644 | 1.643 |
| 3.5 | 1.334 | 1.385 |
| 4 | 1.025 | 1.126 |
| 4.5 | 0.714 | 0.865 |
| 5 | 0.380 | 0.606 |