

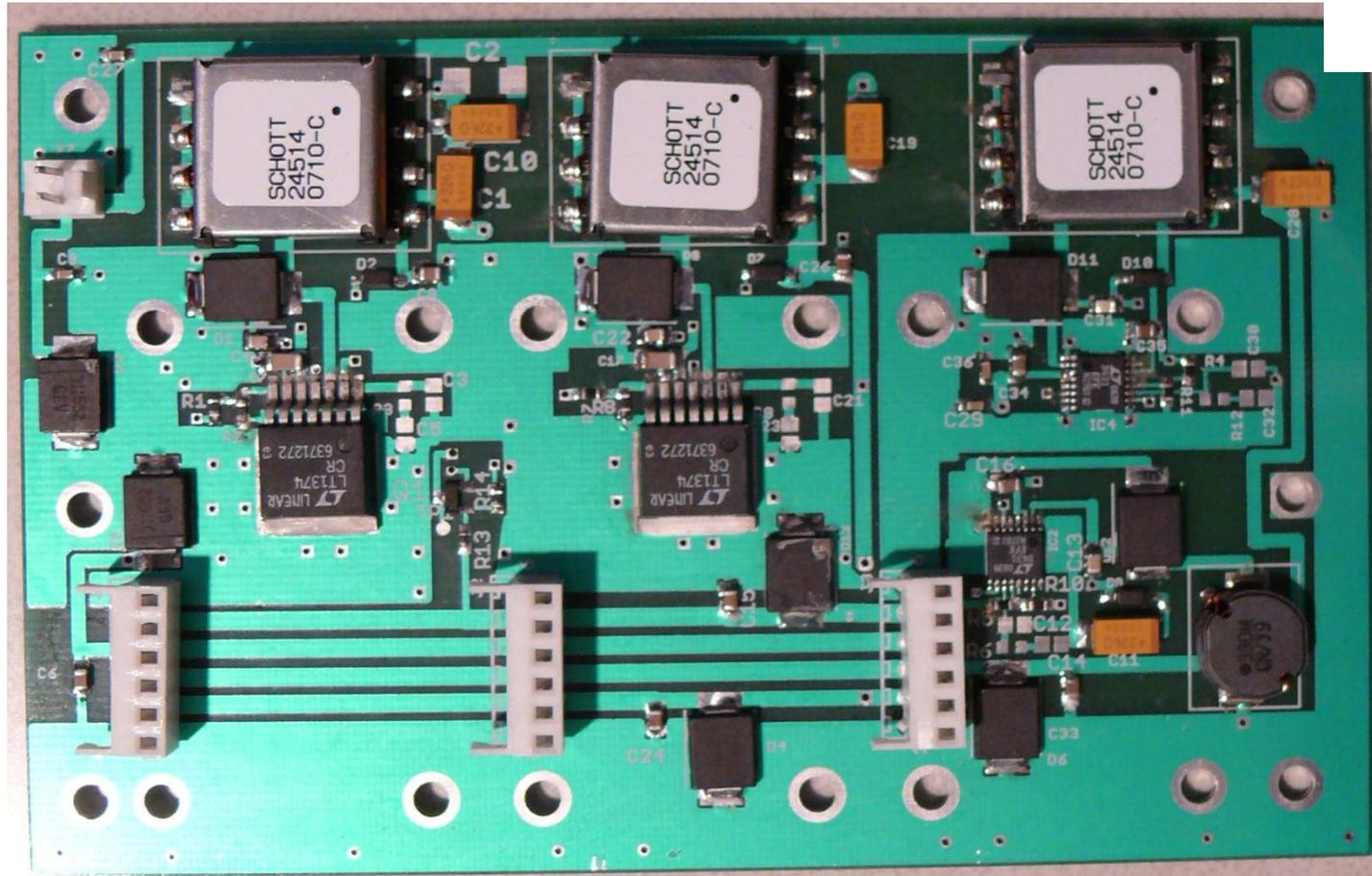


GaAs Fet Power Supply

Chuck Clark AF8Z

July 25, 2009

Quad Power Supply Module





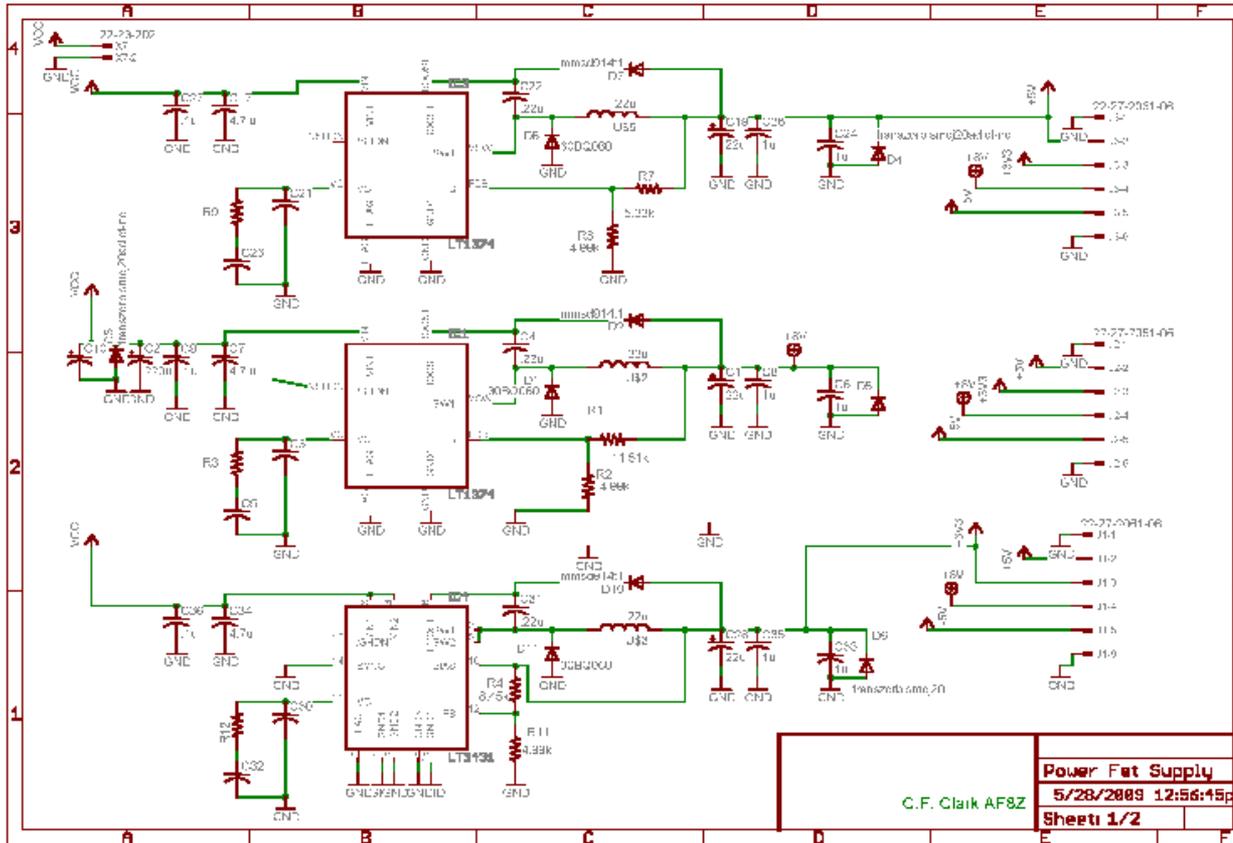
Features

- +8 Volts 3A waits for -5 Volt Supply
- +5 Volts 3A
- +3.3 Volts 1A
- -5 Volts 1A
- Input Voltage Range 12-25 Volts
- Reverse Polarity Protection
- Input and Output Transient Protection
- Short Circuit Protected

Schematic Page 1



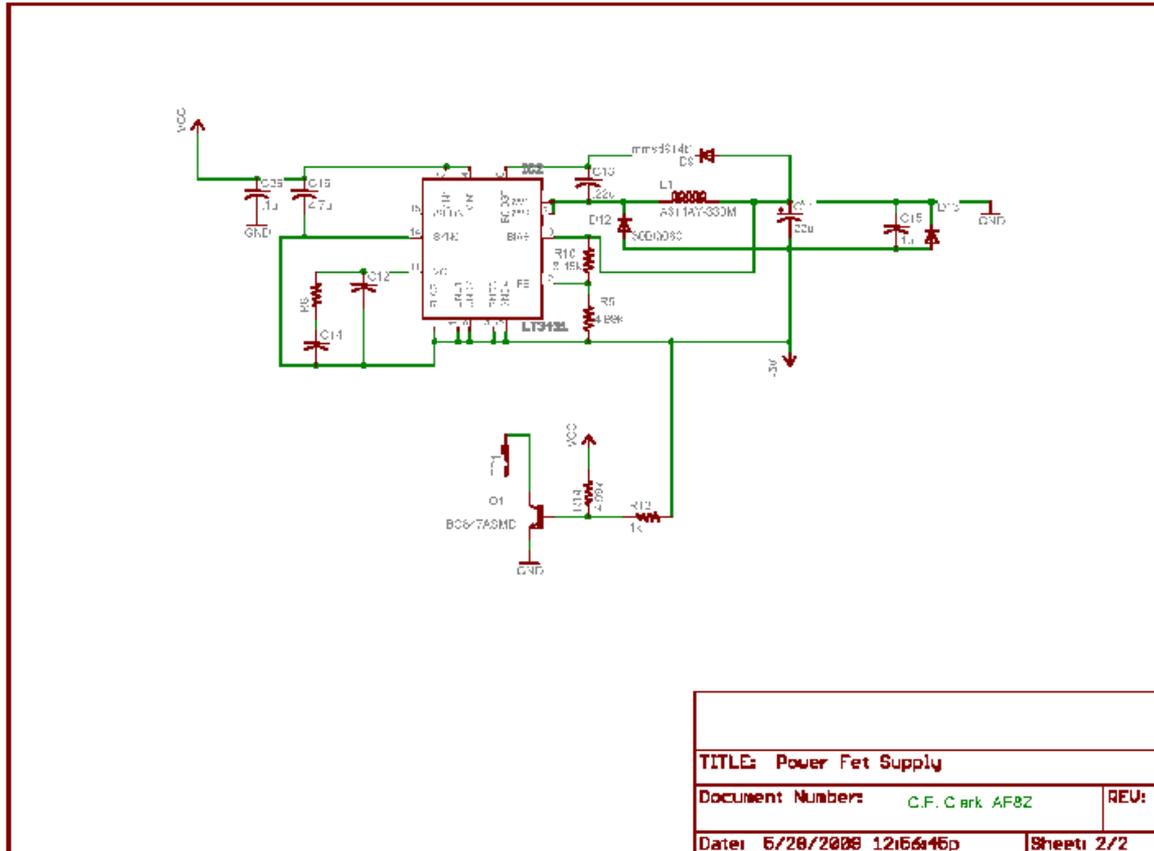
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Negative Supply

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Assembly Details



- Soldered on a hot plate from Target
- Used Solder paste
- Large ground planes used top and bottom for cooling and EMI
- Use the low ESR Tantulum caps to reduce EMI



References

- LT Spice simulator from Linear Technology
 - www.linear.com free with their models!
- Solid State Power Conversion Handbook. Ralph Tarter, John Wiley and Sons, Inc, New York 1993
- Schematic and board layout were done in Eagle by Cadsoft. www.cadsoftusa.com/