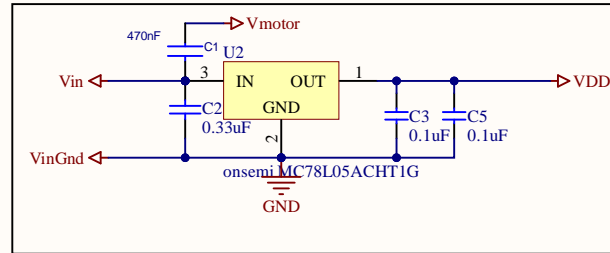
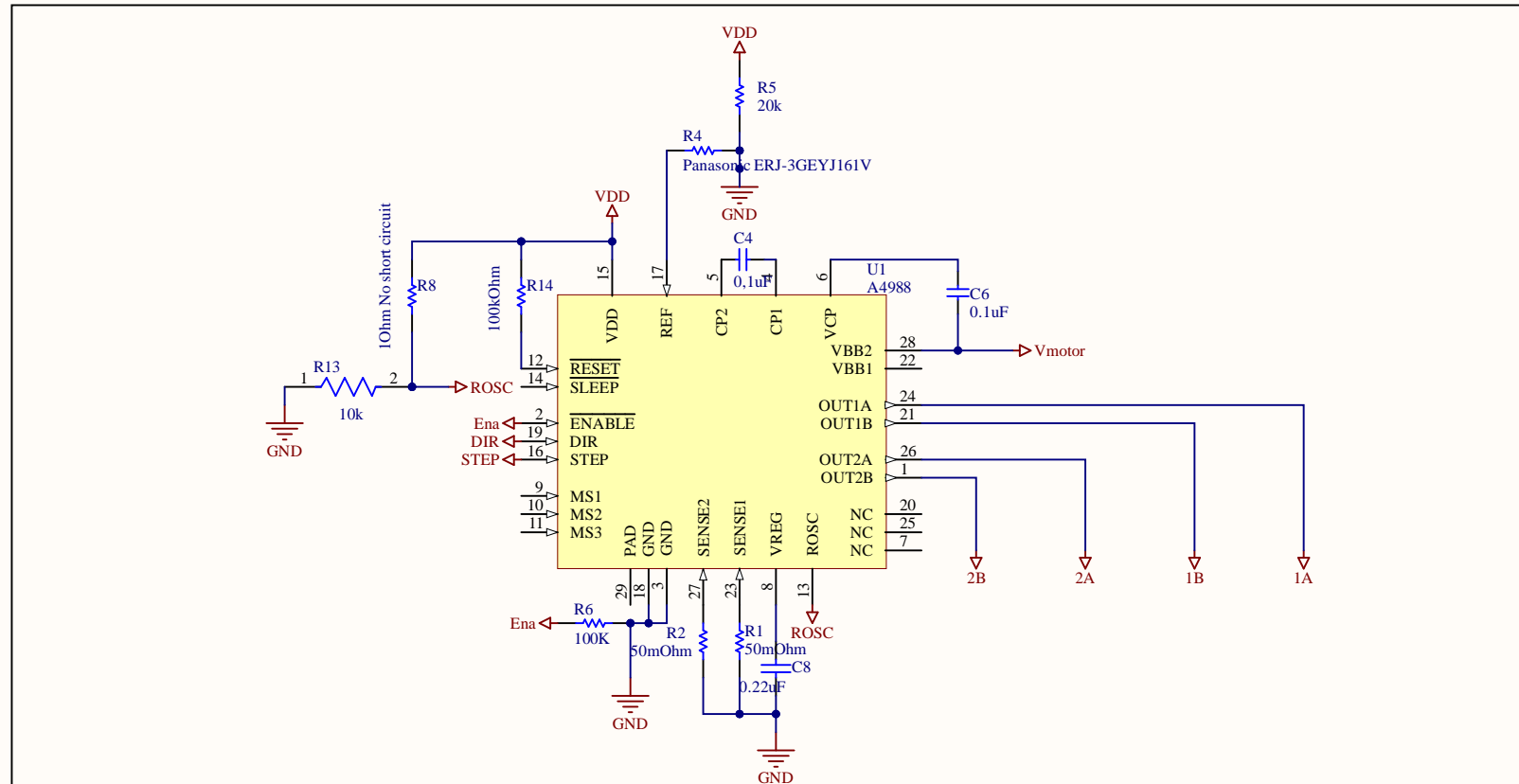


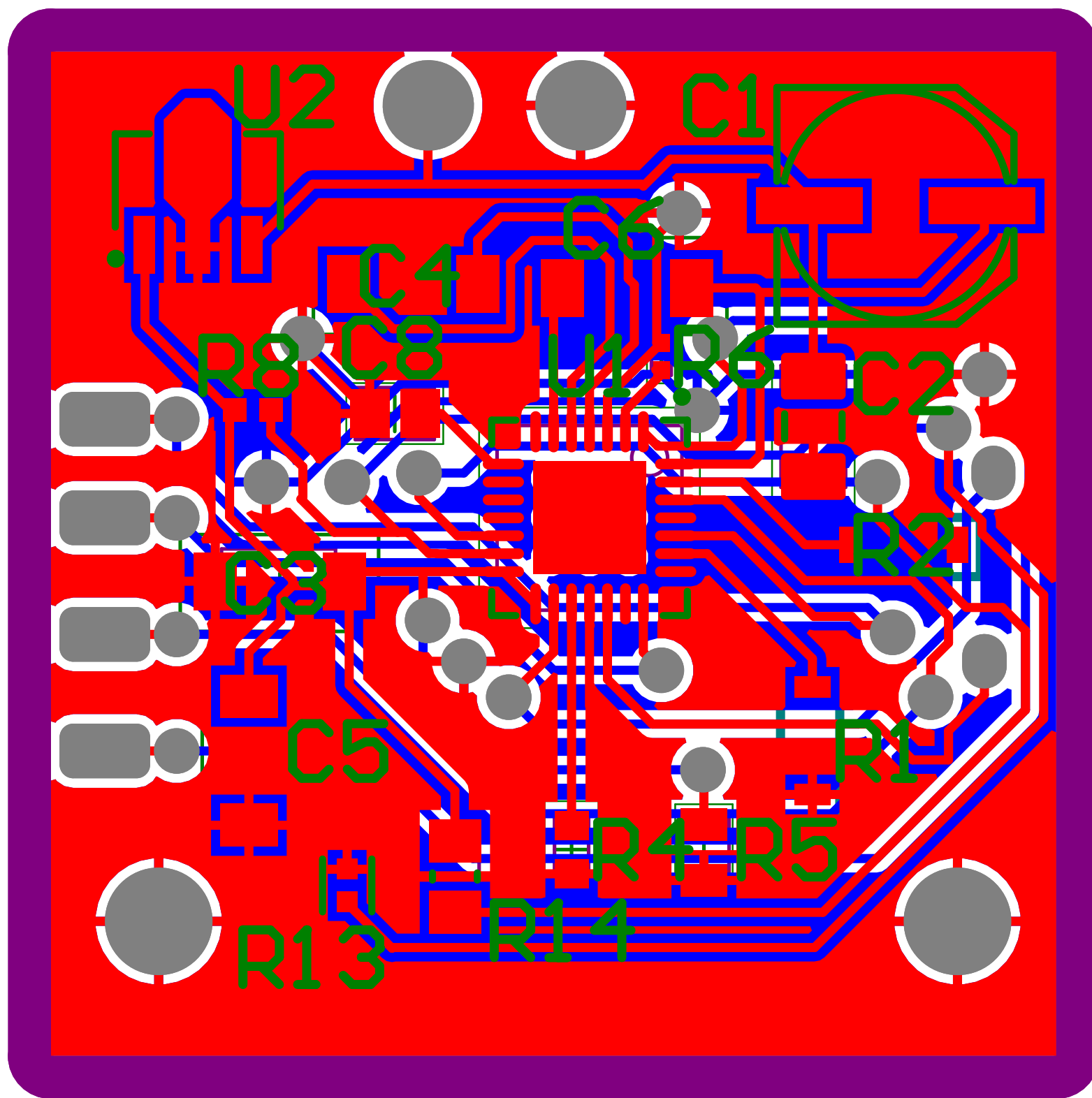
Power-Supply



A4988-Motor-Controller



| | | |
|-------|--|----------|
| Title | | |
| Size | Number | Revision |
| A4 | | |
| Date: | 2.27.2022 | Sheet of |
| File: | C:\ProgramData\..\StepperController.SchDoc | |



| Comment | Description | Designator | Footprint | LibRef | Quantity |
|-----------------------------|---|------------|------------------------------------|----------------------------|----------|
| 470nF | Cap Ceramic 0.47uF 10V X5R 20% SMD 0402 85°C T/R | C1 | PCB- ab16gx9rkhzdcptx7kd 3-1 | CMP- c29e0abbad7d1d59-2 | 1 |
| 0.33uF | CL31 Series 0.33 uF 50 V ±10 % Tolerance X7R SMT Multilayer Ceramic Capacitor | C2 | PCB- w610zufupuummbgh d1in-1 | CMP- 6acba34cbf0cb50c-1 | 1 |
| 0.1uF | C Series 1206 0.1 uF 50 V ±5 % Tolerance C0G SMT Multilayer Ceramic Capacitor | C3, C5, C6 | PCB- lcc7kuvv5qjd2xw4yur g-1 | CMP- 915a59dc44ec4e9d-4 | 3 |
| 0,1uF | C Series 1206 0.1 uF 50 V ±5 % Tolerance C0G SMT Multilayer Ceramic Capacitor | C4 | PCB- lcc7kuvv5qjd2xw4yur g-1 | CMP- 915a59dc44ec4e9d-4 | 1 |
| 0.22uF | Multilayer Ceramic Capacitors MLCC - SMD/SMT 50volts .22uF 5% X7R 7inch reel | C8 | CAPC2013X140X50LL2 0T25 | CMP-3551434-4 | 1 |
| 50mOhm | Thick Film Surface Mnt Resistor 2512 Case 50MOhm +/-1% 1W +/- 100ppm/degC | R1, R2 | PCB- h38ewjcsmg51leo397 rp-1 | CMP- 2fd8e4750972f01f-1 | 2 |
| Panasonic ERJ- 3GEYJ161V | Thick Film Resistors - SMD 0603 160ohms 5% Tol | R4 | RESC1608X55X30NL15 T15 | CMP-3677770-2 | 1 |
| 20k | | R5 | RESC2013X55X40LL15T 20 | CMP-15323555-2 | 1 |
| 100K | Res General Purpose Thick Film 0402 100k Ohm 1% 1/16W ±100ppm/°C Molded Paper T/R | R6 | PCB- n97kkldbbf5rklmnt71 m-1 | CMP- 86ed4a8b7141592a-1 | 1 |
| 10Ohm No short circuit | | R8 | RESC1005X40X25ML05 T05 | CMP-2002-08342-1 | 1 |
| 10k | RES SMD 10K OHM 1% 1/16W 0402 | R13 | FP-CRCW0402-e3- IPC_B | CMP-2002-08135-2 | 1 |
| 100kOhm | Chip Resistor, 100 KOhm, +/- 1%, 0.125 W, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel | R14 | RESC2013X60X35ML10 T20 | CMP-2100-03668-1 | 1 |
| A4988 | DMOS Microstepping Driver with Translator and Overcurrent Protection, 3 to 5.5 V, 20 to 85 degC, 28-Pin QFN (ET), RoHS, Tape and Reel | U1 | ALEG-ET-28_V | CMP-966506-24 | 1 |
| onsemi MC78L05ACHT1G | Linear Voltage Regulator, 100 mA, 5 to 24 V, Positive Vout: 5.0 V; TJ = 0°C to +125°C | U2 | NXP-SOT89_A_M | CMP- 4fb3855e828b9074-8 | 1 |