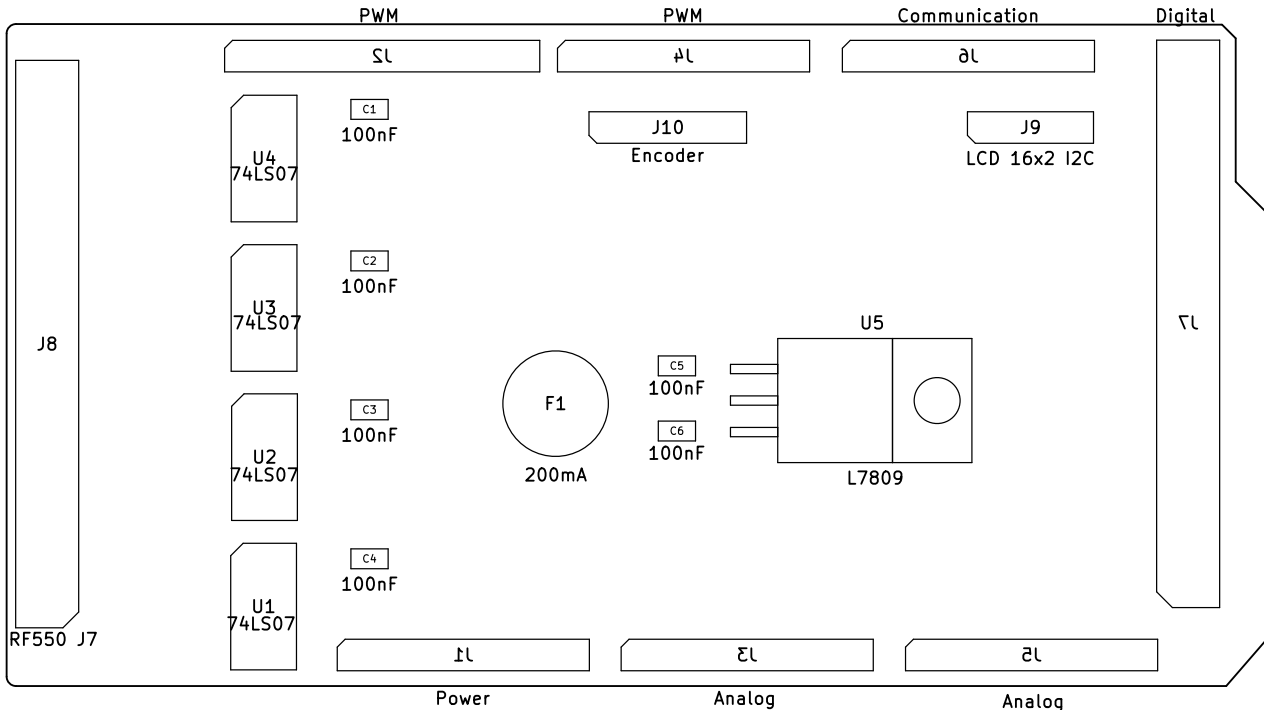


ARDUINO MEGA RF550 ENCODER SHIELD

COMPONENT PLACEMENT & NOTES

COMPONENT PLACEMENT.



NOTES.

- ✓ The components with a mirrored reference, i.e. J1, J2, J3, J4, J5, J6 and J7 are mounted on the solder side of the board. They must be a male header with long pins.
- ✓ J8 is a 2x18 pin header of standard length mounted on the component side of the board, which goes to the 36-pin “BCD FREQ INPUTS” Centronics connector J7 on the RF550. The connection is straight, 1 to 1, 2 to 2, and so on.
- ✓ If You do not have the original RF550 remote control cables and plan to use a Centronics cable, which has the correct connector, be careful to check if all 36 pins are connected, since they very often have only 34 pins connected out of 36, missing pins 18 and 36, which are both required.
- ✓ The rotary encoder used has a switch, activated by pushing the encoder shaft. If your encoder doesn't have such switch, You can use it anyway, provided You add a separate switch connected from the SW encoder pin to ground. The switch is required to select the various functions.
- ✓ The 16x2 LCD display must have the I2C interface fitted. If You don't want to modify the sketch, it must be the PCF8574-based version. If it has backlight, check what is the current required since, as per RF550 manual, the +15V power supply pin can only deliver 200mA. This is why the F1 fuse is 200mA.