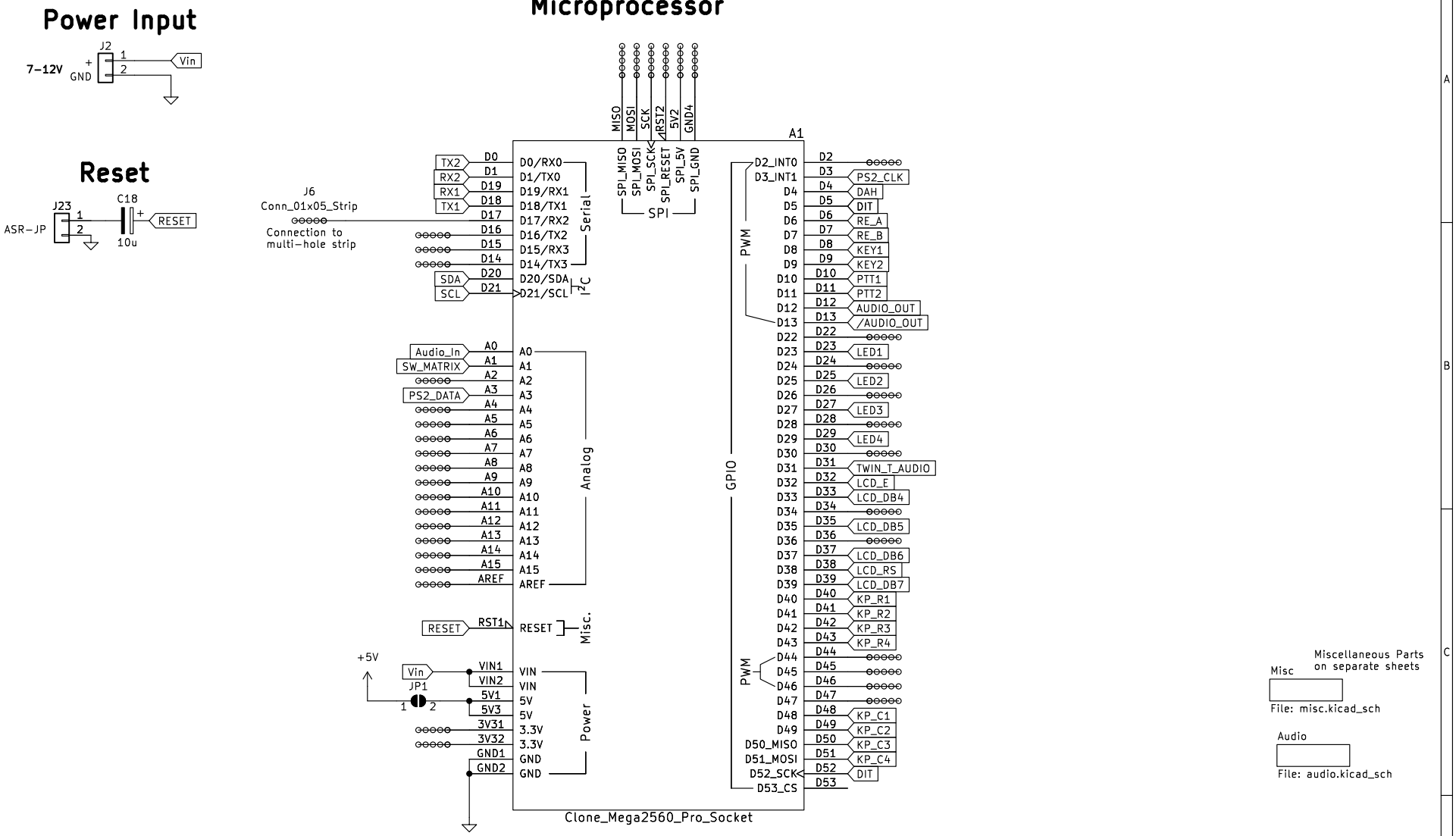
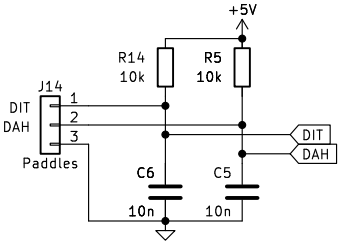
# Arduino Mega 2560 clone Microprocessor



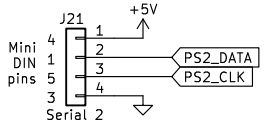

Notes:
1. Closeing Solder Jumper JP1 allows +5v from Arduino Mega to power the rest of the circuit.
2. Paddle DIT also connected to D52 for Straight Key.

| | | |
|---|---|---|
| **EZ Electronics** | | |
| Sheet: / | | |
| File: ArduinoMega2560_K3NG_Keyer_SMT.kicad_sch | | |
| ***Title: Arduino Mega2560 K3NG Keyer – Microprocessor*** | | |
| Size: USLetter | Date: 2024–03–12 | **Rev: 0.1** |
| KiCad E.D.A. kicad 7.0.11~rc4–202402191806~3dedd899f7~ubuntu22.04.1 | | Id: 1/3 |

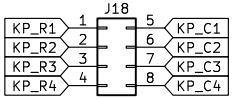
## Paddle Input



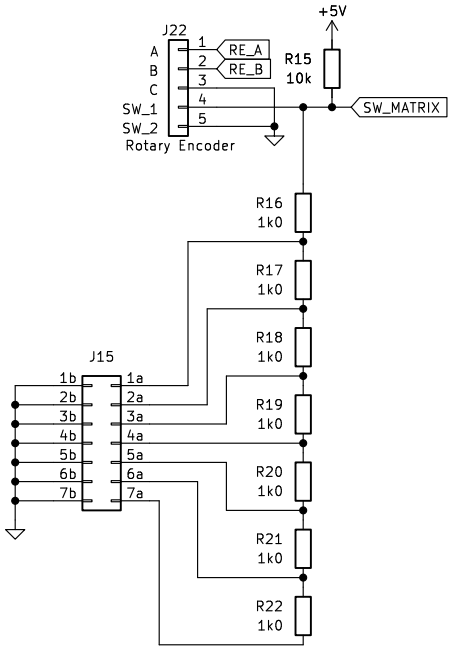

## PS/2 Keyboard



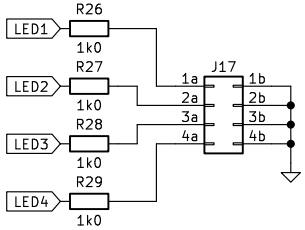

## Keypad



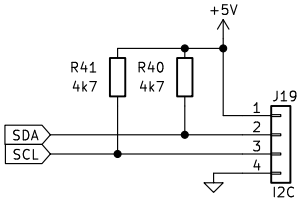

## Rotary Encoder and Switches



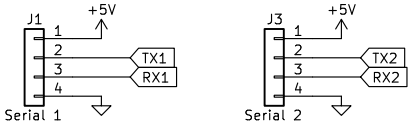

## LEDs



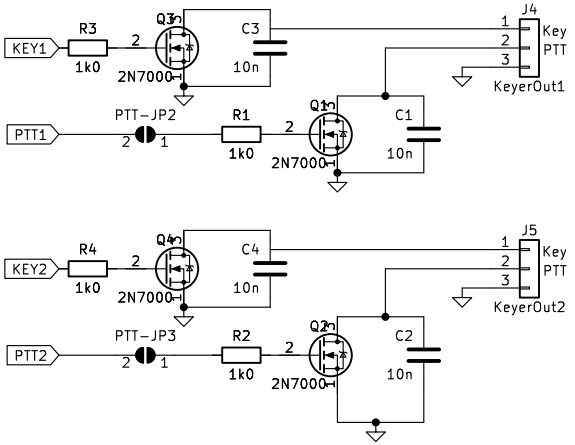

## I2C



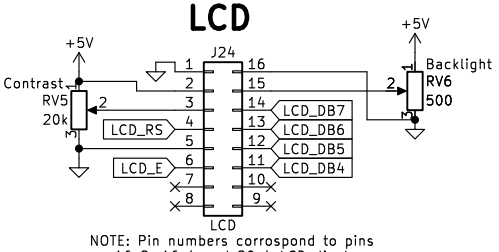

## Serial Ports




## Keyer Outputs

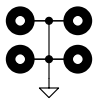



## LCD



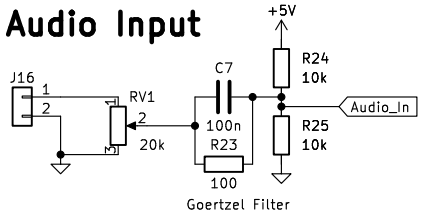

NOTE: Pin numbers corrospond to pins on 16x2, 16x4 and 20x4 LCD displays.

## Mounting Holes



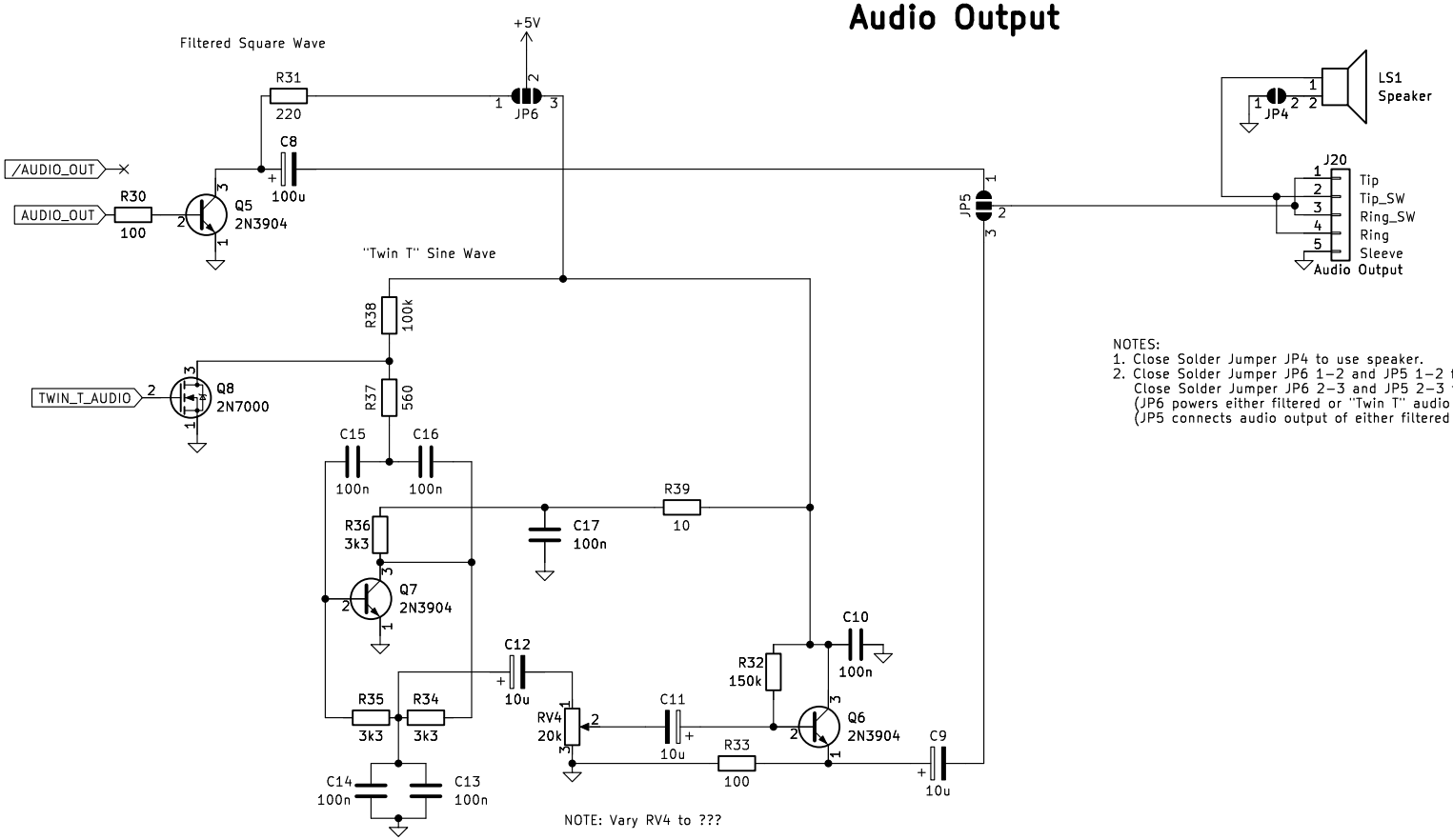
| | | |
|---|---|---|
| **EZ Electronics** | | |
| Sheet: /Misc/ | | |
| File: misc.kicad_sch | | |
| ***Title: Arduino Mega2560 K3NG Keyer – Miscellaneous Circuits*** | | |
| Size: USLetter | Date: 2024-03-12 | **Rev: 0.1** |
| KiCad E.D.A. kicad 7.0.11-rc4-202402191806-3dedd899f7-ubuntu22.04.1 | | Id: 2/3 |

# Audio Input




Goertzel Filter

# Audio Output




NOTES:
1. Close Solder Jumper JP4 to use speaker.
2. Close Solder Jumper JP6 1–2 and JP5 1–2 for filtered sine wave audio output.
   Close Solder Jumper JP6 2–3 and JP5 2–3 for "Twin T" sine wave audio output.
   (JP6 powers either filtered or "Twin T" audio output circuits.)
   (JP5 connects audio output of either filtered or "Twin T" circuit.)

| | | |
|---|---|---|
| **EZ Electronics** | | |
| Sheet: /Audio/ | | |
| File: audio.kicad_sch | | |
| ***Title: Arduino Mega2560 K3NG Keyer – Audio Circuits*** | | |
| Size: USLetter | Date: 2024-03-12 | **Rev: 0.1** |
| KiCad E.D.A. kicad 7.0.11-rc4-202402191806-3dedd899f7-ubuntu22.04.1 | Id: 3/3 | |