# Arduino TPS

ATtiny84 Layout Documentation

# Schematic



| Maßstab | 152,00% | Firma MCS | | Zeichner WKLA | Blatt |
|---|---|---|---|---|---|
| Änderung | 02.12.2018 23:07 | | Titel ATtiny84 TPS Platine | | |
| Ausgabe | 02.12.2018 23:07 | | | | |
| Datei | ATtiny84_TPS.T3001 | | Projekt ArduinoTPS | | |
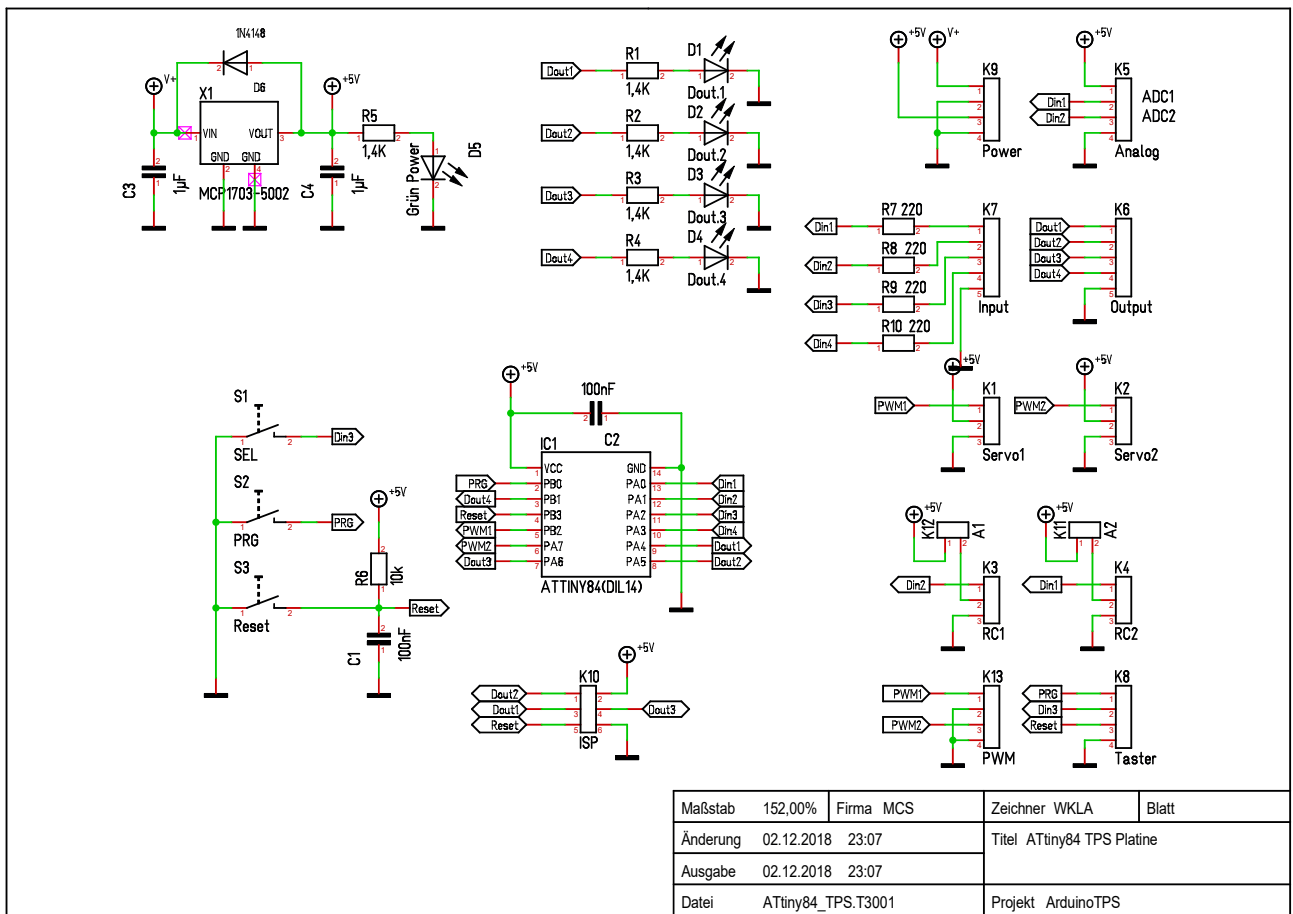
# Layout
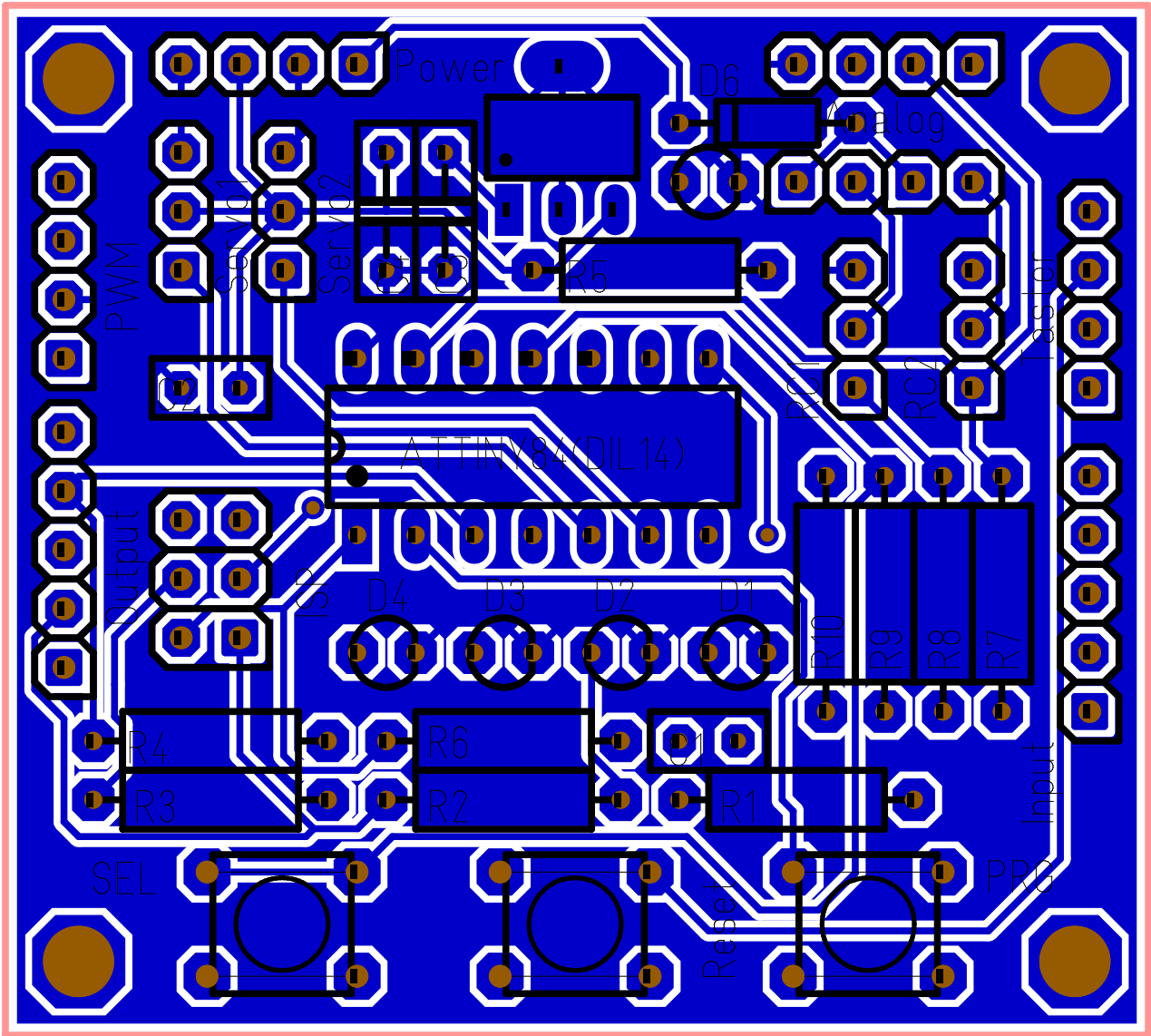
# Connections

All connections to the board are described here.

## Analog

The analog input provide access to A/D Convert 1 and 2. The pinout is

1 +5V
2 ADC1
3 ADC2
4 GND

## Input

Standard TPS input scetion with 4 inputs protected by 220 Ohm resistors.

1 Din.1
2 Din.2
3 Din.3
4 Din.4
5 GND

## Output

Standard TPS output scetion with 4 outputs parallel to onboard low current LEDs.

1 Dout.1
2 Dout.2
3 Dout.3
4 Dout.4
5 GND

## PWM

PWM Outputs. Frequencie 500Hz.

1 PWM1
2 GND
3 PWM2
4 GND

# Power

Power connector to power up the TPS and get some Power from the internal 5V source. (max. 100mA)

| 1 | V+in |
|---|------|
| 2 | GND  |
| 3 | +5V  |
| 4 | GND  |

# Servo

There are 2 servo connections on this board.

| 1 | PWM |
|---|-----|
| 2 | +5V |
| 3 | GND |

# RC

There are two RC inputs for standard model receivers. The Pulse should be between 500us and 1500us. The +5V pin can be powered with the internal source when the jumper A is closed. If you don't wont to use the internal source please remove the jumper.

| 1 | PWM   |
|---|-------|
| 2 | +5V ( |
| 3 | GND   |

# Switches

The switches can be placed outside, too.

| 1 | PRG   |
|---|-------|
| 2 | SEL   |
| 3 | Reset |
| 4 | GND   |