

KT70 TSO V1.1



Back side of the PCB

Resistors circled in red: R1, R2, R11, R13, R16 and R18 are 220 Ohm

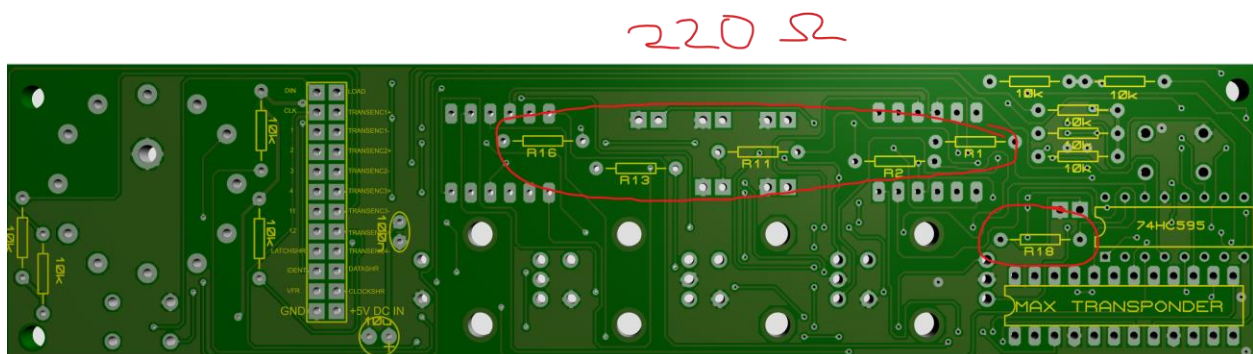
The rest of the resistors are 10 Kilo Ohm.

Max7219 chip to display the digits

74HC595 shift register for the LEDs

1x 100 nF ceramic capacitor

1x 10uF electrolytic capacitor



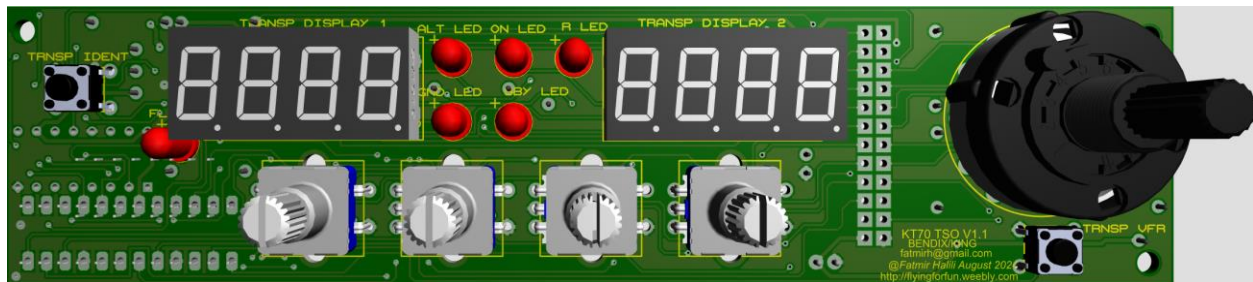
In the front side we have

2x 0.36 Inch 4 digits 7 segment displays (Common Cathode)

6x 5mm RED LEDs

4x EC11 rotary encoders

2x 6mmx6mmx5mm micro switches



Pinouts:

DIN, LOAD, CLK – are the pins for the displays (can be connected to any Arduino pins)

1, 2, 3, 4, 11, 12 – are the pins for the rotary switch (OFF, SBY, TST, GND, ON, ALT) can be connected to any Arduino pins.

TRANSENC1+ Transponder encoder 1 +

TRANSENC1- Transponder encoder 1 –

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Are the transponder encoders 1 to 4. They have 2 pins each (+ and -) which can be connected to any Arduino pins.

LATCHSHR – LATCH SHIFT REGISTER

DATASHR – DATA SHIFT REGISTER

CLOCKSHR – CLOCK SHIFT REGISTER

VFR, IDENT – are the vfr and ident switches which can also be connected to any Arduino pins.

