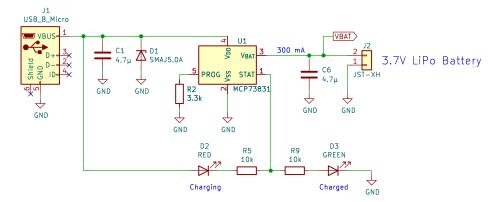
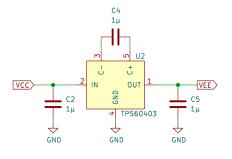
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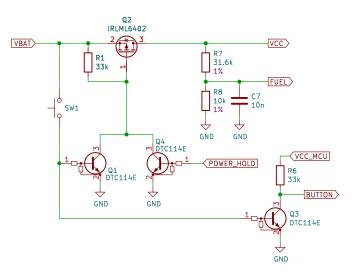
USB Charger



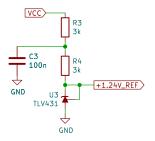
Negative Power Supply



Power Switch



Voltage Reference



Resistors 5% 0.1W unless otherwise noted. Capacitors X7R 50V unless otherwise noted.

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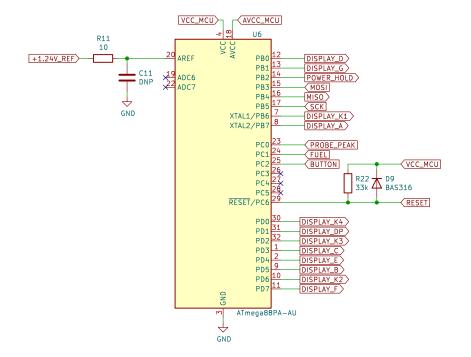
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Size: A4 Date: KiCad E.D.A. kicad 7.0.3

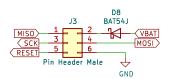
ld: 2/4

Wien Bridge Oscillator Amplifier R40 45.3k 1% C9 10n R14 1k 2.2k 1k 1% 1% C18 100n 1k 1% VCC_AMP R12 100k PROBE PROBE_AMP R24 499 1% OPA1678 C10 50 mVpp 100 kHz D4 10n VEE_AMP BAS316 2 Ca Binding Post Capacitor R25 \forall OPA1678 D10 D11 SM4007 VEE_WIEN +1.24V_REF> C14 1n NP0 OPA1678 R23 1.58k R10 10k BAS316 GND 1% GND GND GND GND GND GND Peak Detector R38 10 R41 R18 10k VCC_PD > C21 C16 100n 100n 100n D6 BAS316 R26 1 k C8 100n GND GND D7 BAS316 PROBE_PEAK OPA1678 _ C15 VEE_PD 10n PROBE_AMP OPA1678 C20 100n = 100n 100n R13 VEE_PD GND GND GND GND GND GND Resistors 5% 0.1W unless otherwise noted. Capacitors X7R 50V unless otherwise noted. Sheet: /Analog/ File: analog.kicad_sch Title: Size: A4 Date: KiCad E.D.A. kicad 7.0.3 ld: 3/4

Microcontroller

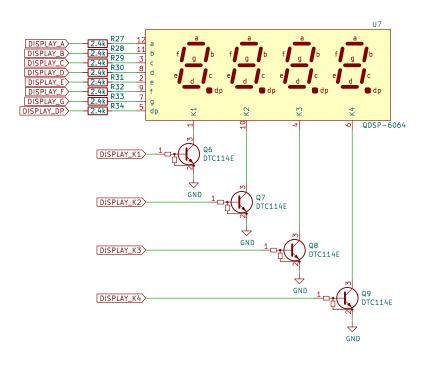


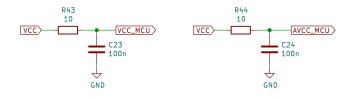
AVR ISP



NOTE: hold SW1 button down when programming

Display





Resistors 5% 0.1W unless otherwise noted. Capacitors X7R 50V unless otherwise noted.

Sheet: /Digital/ File: digital.kicad_sch

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 Rev:

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