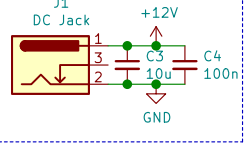
Goals:
Vanilla Guido design as starting point
Modular to experiment.
- Arduino nano -> MKR zero/cortex, RP2040
- etherkit TXCO or adafruit style si5351 connectors
- OLED or 1602 LCD
- 3x parallel mosfets or individual
- single band filter plug in modules or on board 1 band

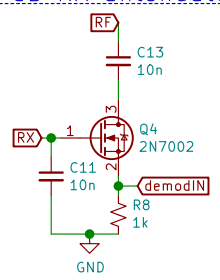
BJT MOSFET driver
PCBA from jlcpcb

Power Input

12 V is limit for the nano

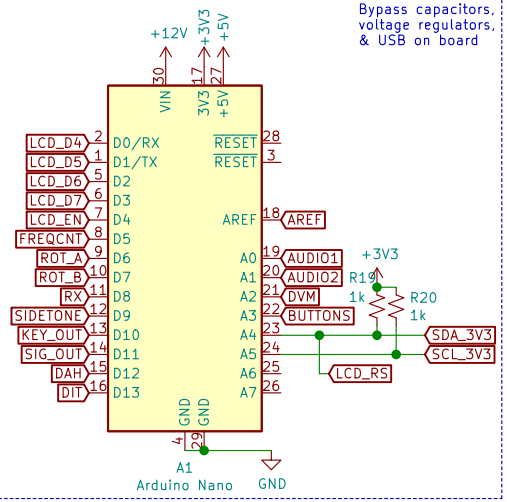


20 dB RX antenuator

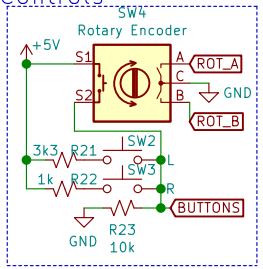


MCU Module

Bypass capacitors, voltage regulators, & USB on board

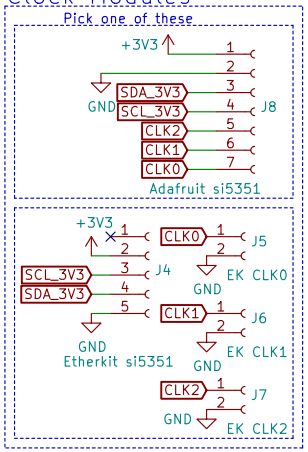


Controls

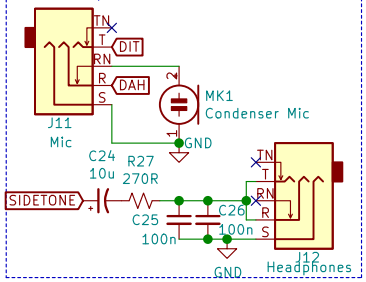


Clock Modules

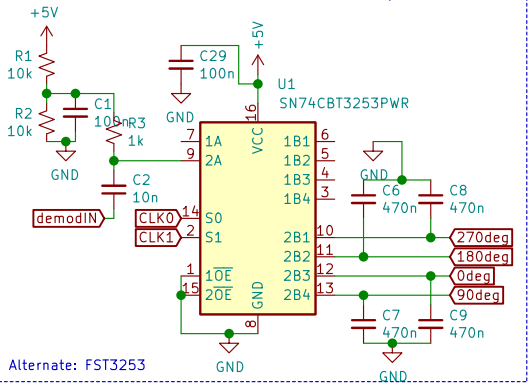
Pick one of these



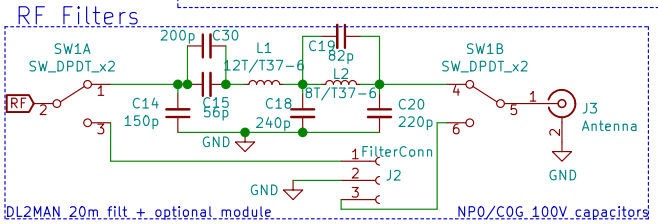
Audio I/O



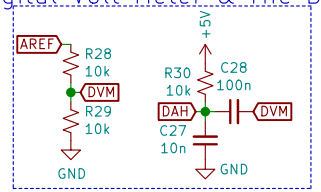
Quadrature detector and low pass filter



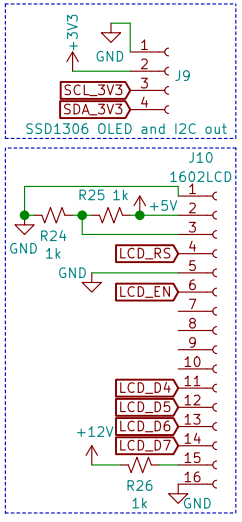
RF Filters



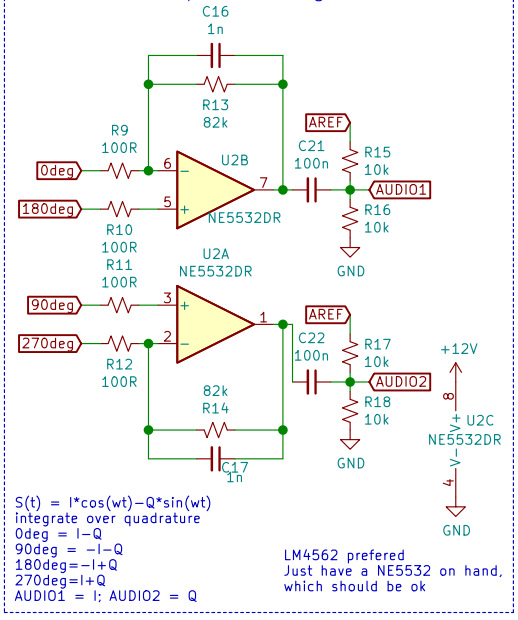
Digital Volt Meter & Mic Bias



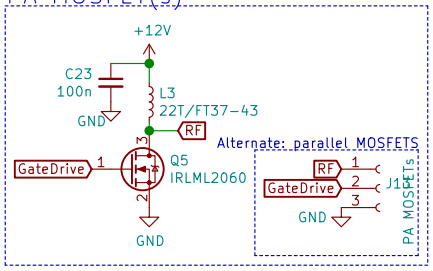
LCDs



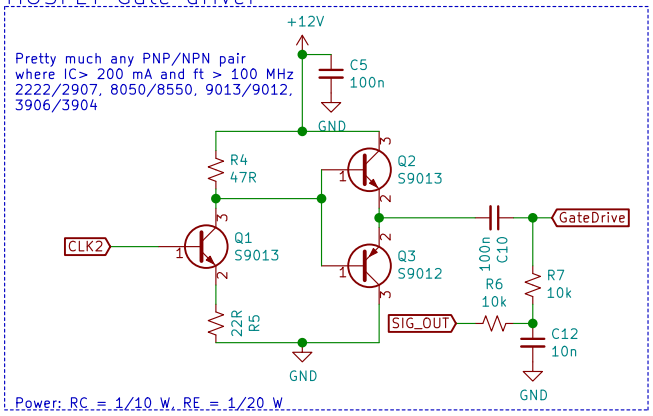
Difference Amplifier to get I&Q



PA MOSFET(s)



MOSFET Gate driver



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Title: uSDX-X

Size: A4	Date: 2021-03-27	**Rev: N/A**
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