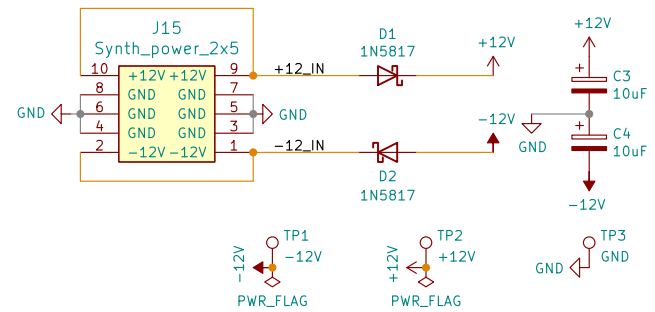


ACME GRAF1
Holes

ACME GRAF2
CC0 logo

ACME GRAF3
AO logo



Core based on <https://kassu2000.blogspot.com/2015/10/variable-waveshape-lfo.html>

Rich Holmes / Analog Output

Sheet: /

File: kdlfo.kicad_sch

Title: Variable waveshape LFO

Size: USLetter Date: 2022-03-28

KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Rev:

Id: 1/3

Original value was 100R. I found this was too low for the op amps to drive and caused bad behavior; increased to 300R.

Added 200R in series with frequency pot to establish nonzero minimum frequency.

Original had inverting LED driver.

Original had JFET based tri to sin; replaced with differential pair shaper.

Choose RL for desired LED brightness. I used 1k with the BOM LED.

Core based on <https://kassu2000.blogspot.com/2015/10/variable-waveshape-lfo.html>

Rich Holmes / Analog Output

Sheet: /LFO A/

File: onelfo.kicad_sch

Title: Variable waveshape LFO

Size: USLetter Date: 2022-03-28

KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Rev:

Id: 2/3

Original value was 100R. I found this was too low for the op amps to drive and caused bad behavior; increased to 300R.

Original had JFET based tri to sin; replaced with differential pair shaper.

Added 200R in series with frequency pot to establish nonzero minimum frequency.

Original had inverting LED driver.

Choose RL for desired LED brightness. I used 1k with the BOM LED.

Core based on <https://kassu2000.blogspot.com/2015/10/variable-waveshape-lfo.html>

Rich Holmes / Analog Output

Sheet: /LFO B/

File: onelfo.kicad_sch

Title: Variable waveshape LFO

Size: USLetter Date: 2022-03-28

KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Rev:

Id: 3/3