

nonlinearcircuits

Sloth DK Build & BOM

This module puts out very slow chaotic CVs, it can take from 8-20 hours to complete a chaotic orbit.

Generally the output signals range between +/-4V, tho mostly around +/-2V.

The middle output is simply a mix of the two main outs, passing through the pot to attenuate the signal if you wish (and it helps hold the PCB to the panel). It is a little hotter and more complex than the individual outs.

There are no inputs and no way to control it.

The large capacitors sticking through the panel never see more than +/-0.15V in normal use. Nevertheless you probably should not take the module out of the case and rest your tongue across their leads. The outputs for each Sloth are taken from different stages of the circuit and are different to each other.

BOM

Resistors and capacitors for each version

Use the Tayda codes to see examples (if not buying from Tayda)

10uF	2	0805, min 25V rating
220uF	2	Tayda: A-4503
470uF	2	Tayda: A-1065
10000uF	2	Must be 18mm diameter, at least 16V rating Tayda: A-2928
1k	3	0805
RL	1	0805 (usually 1k for red/green LEDs, 4k7 for blue/red LEDs)
100k	10	0805
120k	1	0805
1M2	3	0805
10M	5	0805
TL072 or TL082	2	Soic, Tayda: A-1139
TL074 or TL084	1	Soic Tayda: A-1137 or A-1140
Eurorack 10 pin power connector	1	Tayda: A-198 cut to size
Schottky, power rectifier or 10R, optional - for reverse voltage protection...or not. BAT54GWX	2	SMD, Schottky dot on PCB indicates CATHODE (stripe on component) Mouser: 841-BAT54GWX
3.5MM SOCKET Kobiconn style	3	Tayda: A-2563 or Synthcube, Modular addict and Thonk
Bi-polar 2 pin LED	1	5mm Tayda: A-1050 or get blue/red off ebay
100k pot	1	Tayda: A-1848 or Synthcube, Modular addict and Thonk

Assembly tip – attach the 10000uF caps to the PCB but do not solder them in place until you have soldered in the jacks, LED and pot.

SLOTH DK
MIX LEVEL



fuse or 10K

10k

1k

1M2

1M2

1N2

10H

100k

1k

100k

nonlinear circuits
sloth dk v5

RL

