

ENVELARP - Build Document 1.4

This is a clone of the 4020 ADSR/AR used in ARP 2600.

Other than some part substitutes, added comparator and a layout adjusted mainly for eurorack I have stuck with keeping it as close to the original schems as possible. This means it will have its quirks, just as the original does.

Remember to either normal the Gate and Trig input together, or to make sure both inputs receive Gate/Trig voltage. This circuit needs both to work properly.

Possible replacements for the 2N5459's would be:

2N5457, 2N5458, 2N5485 or BF245 (pinout reversed) and possibly more.

- Rickard Steffensen

BOM

Resistors		Capacitors		Semiconductors		Pots & Jacks		Etc.	
Part	Pcs	Part	Pcs	Part	Pcs	Part	Pcs	Part	Pcs
120	1	27pF	1	2N3904	4	1M Aud 16MM	5	10-pin Power Header	1
1K	2	47pF	1	2N3906	3	100K Lin 16MM	1		
1K5	1	330pF	1	2N5459	1	Jacks	4	LED 5MM**	2
2K2	2	100nF*	2	2N5460	2				
3K9	1	1nF	1	LM393	1				
4K7	1	10nF	1	LM301	2				
6K8	2	100nF	1	1N4148	11				
9K1	1	1uF	3						
10K	12	10uF	3						
12K	1								
15K	1								
22K	2								
33K	1								
39K	1								
40K2	1								
68K	2								
68K1	1								
100K	1								
120K	1								
180K	2								
270K	1								
470K	1								
1M	4								
1M2	1								

*ceramic

**yellow ultrabright

LAYOUT

