<u>nonlinearcircuits</u>

<u>1U Diff-Rect Build & BOM</u>

Those that build a lot of NLC modules will know this is one of my favorite circuits. The diff-rect has appeared on the Neuron, 1050 mix/sequencer, triple Sloth, GENiE and 8 of them make up the Let's Splosh. It is great for mixing audio and/or CV signals to get all kinds of unexpected and interesting results. This page from 2012 on my old Pinky site has some more details.

Please note, the PCBs only have eurorack 10 pin power connectors, not the Pulp Logic 3 pin type.

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Resistors and capacitors for each version

Component	quantity	notes
Eurorack 10 pin power	1	Tayda: A-198 cut to size
connector	-	
Schottky, power rectifier	2	SMD, Schottky
or 10R, optional - for		dot on PCB indicates CATHODE
reverse voltage		(stripe on component)
protectionor not. BAT54GWX		Mouser: 841-BAT54GWX
3.5MM SOCKET Kobiconn style	4	Tayda: A-2563
2.54mm single row pin	2x 3 pins	Tayda: A-197 cut to size
header strip		
3mm LED	2	
LL4148 diodes	2	Tayda: A-1213
TL072 or TL082	1	Soic Tayda: A-1139
10uF	2	0805, minimum 25V rating. For
		decoupling, you can substitute any
		value 100nF or higher if 10uF are
		a pita to source
RL	1	0805 Resistor to suit LEDs, I
		usually use 4k7 - 10k these days
	2	0005
lk	2	0805
100k	5	0805
TOOK	C	6000
Other courses for cockets or		

Other sources for sockets are Synthcube, Modular addict and Thonk.







