

**Dual Dreadful VCF v1.3**

Tom Evans Apr. 2019

## Bill of Materials

Type	Value	Quantity	Name	Part Number (Mouser unless otherwise stated)
Resistor	470R	6	R19, R22, R25, R31, R34, R37	603-MFR-25FRF52-470R
Resistor	1k	2	R24, R36	603-MFR-25FRF521K
Resistor	22k	2	R9, R19	603-MFR-25FRF52-22K
Resistor	30k	8	R20, R21, R23, R27, R32, R33, R35, R39	603-MFR-25FRF52-30K
Resistor	47k	6	R11, R12, R18, R29, R30, R41	603-MFR-25FRF52-47K
Resistor	100k	12	R1, R2, R3, R4, R5, R6, R7, R8, R13, R15, R28, R40	603-MFR-25FRF52100K
Resistor	220k	5	R10, R14, R17, R26, R38	603-MFR-25FRF52-220K
<b>Capacitors</b>				
Ceramic	220pF	4	C6, C8, C10, C12	81-RCE5C1H221J0DBH3A
Ceramic	470pF	4	C5, C7, C9, C11	81-RCE5C1H471J0DBH3A
Ceramic	100nF	4	C3, C4, C13, C14	810-FG26C0G1H104JNT6
Electrolytic	10uF	2	C1, C2	667-ECE-A1EKS100B
Film	1uF	4	Film_C1, Film_C2, Film_C3, Film_C4	871-B32529C105K000
<b>Semis &amp; ICs</b>				
Diode Rectifier	1N4001	2	D1, D2	621-1N4001
Quad Op-Amp	TL074	3	IC1, IC2, IC4	595-TL074CN
Quad VCA	V2164 DIL16	1	IC3	Thonk <a href="https://www.thonk.co.uk/shop/coolaudio-v2164-all/">https://www.thonk.co.uk/shop/coolaudio-v2164-all/</a>
<b>Hardware</b>				
Pin Header	2X5 Male	2	TOP, PWR_RIBBON	All Male headers: 855-M20-9722446: You can buy 1 and cut to size
	2X5 Female	1	BOT	855-M20-7830546
	2X3 Male	1	PWR_T	All Male headers: 855-M20-9722446: You can buy 1 and cut to size
	2X3 Female	1	PWR_B	855-M20-7830346
IC Sockets	DIP14	3		571-1-2199298-3
	DIP16	1		571-1-2199298-4
Potentiometer	B100k 9mm Vertical Snap-In	7		Thonk <a href="https://www.thonk.co.uk/shop/alpha-9mm-pots/">https://www.thonk.co.uk/shop/alpha-9mm-pots/</a>
3.5mm Jack	Thonkiconn PJ301M	7		Thonk <a href="https://www.thonk.co.uk/shop/thonkiconn/">https://www.thonk.co.uk/shop/thonkiconn/</a>
				Remember to get Hex Nuts because they are objectively better!
Knobs	Davies 1900h Clone	5		Thonk <a href="https://www.thonk.co.uk/shop/1900h-round/">https://www.thonk.co.uk/shop/1900h-round/</a>
	MXR" Style	2		Thonk <a href="https://www.thonk.co.uk/shop/mxr-style-knobs/">https://www.thonk.co.uk/shop/mxr-style-knobs/</a>
Standoff	M3 female to female, 11mm long	1		761-M1258-3005-AL
Screws	M3 x 0.5 x 6mm	6		Normal Eurorack Screws!