

**Dual Dreadful VCF v1.4**

Tom Evans April 2020

Bill of Materials

See below for important Rev info

Type		Value	Quantity	Name	Part Number (Mouser unless otherwise stated)
Resistor		470R	6	R19, R22, R25, R31, R34, R37	603-MFR-25FRF52-470R
		1k	2	R24, R36	603-MFR-25FRF521K
Resistor		30k	10	R11, R12, R20, R21, R23, R27, R32, R33, R35, R39	603-MFR-25FRF52-30K
Resistor		47k	6	R9, R16, 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		180k	3	R10, R14, R17	603-MFR-25FRF52-180K
Resistor		220k	2	R26, R39	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 (SMD) U1, U2, U3	595-TL074CN
Quad VCA		V2164 DIL16	1	IC3 DA1	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	D-Shaft !	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 becuase they are objectively better!
Knobs	D Shaft !	Sifam Smal Unskirted D	5		Thonk <a href="https://www.thonk.co.uk/shop/intelijel-black-knobs/">https://www.thonk.co.uk/shop/intelijel-black-knobs/</a>
	D Shaft !	Sifam Large Skirt D	2		^
Knob Cap		Sifam Small (Aqua or White recommended)	5		Thonk <a href="https://www.thonk.co.uk/shop/sifam-caps/">https://www.thonk.co.uk/shop/sifam-caps/</a>
		Sifam Large (Aqua or White recommended)	2		^
Standoff		M3 female to female, 11mm long	1		761-M1258-3005-AL
Screws		M3 x 0.5 x 6mm	6		Normal Eurorack Screws!
<b>Rev 2 update:</b>					

All resistor pads labeled "33k" should be populated with 30k resistors.

**Rev 4 updates:**

Multiple resistor values have changed for better front panel control response. Please reference the image below with updated resistor values in the red circle.

This change only affects the Top PCB

