

Dual Dreadful VCF v1.2

Tom Evans Jan. 2019

Bill of Materials

| Type | Value | Quantity | Name | Part Number (Mouser unless otherwise stated) |
|------------------------|--------------------------------|----------|--|---|
| Resistor | 470R | 10 | 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 | 33k | 8 | R20, R21, R23, R27, R32, R33, R35, R39 | 603-MFR-25FRF52-33K |
| 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 |
| Capacitors | | | | |
| 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 |
| Semis & ICs | | | | |
| 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 https://www.thonk.co.uk/shop/coolaudio-v2164-all/ |
| Hardware | | | | |
| 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 |
| Potentiometer | B100k 9mm Vertical Snap-In | 7 | | Thonk https://www.thonk.co.uk/shop/alpha-9mm-pots/ |
| 3.5mm Jack | Thonkiconn PJ301M | 7 | | Thonk https://www.thonk.co.uk/shop/thonkiconn/ |
| | | | | Remember to get Hex Nuts because they are objectively better! |
| Knobs | Davies 1900h Clone | 5 | | Thonk https://www.thonk.co.uk/shop/1900h-round/ |
| | MXR" Style | 2 | | Thonk https://www.thonk.co.uk/shop/mxr-style-knobs/ |
| Standoff | M3 female to female, 11mm long | 1 | | Thonk https://www.thonk.co.uk/shop/standoffs/ |
| Screws | M3 x 0.5 x 6mm | 6 | | Normal Eurorack Screws! |