

GMSN! Pure VCA BoM

| Qty | RefDes | Description | Value | Manufacturer | Manufacturer P/N | RS P/N | Mouser P/N | Package | Other Vendor | Other P/N | Cost | Total Cost |
|-------|------------------------|------------------------------|------------------------|-------------------|---------------------|----------|----------------------|--------------|--------------|----------------|-------|------------|
| 2 | D1, D2 | Diode | STTH102A | Generic | | 485-8465 | 511-STTH102A | SMADIODE | | | £0.18 | £0.36 |
| 2 | R4, R5 | Resistor, 1% | 100R | Generic | | 901-3689 | 603-RC0805FR-07100RL | R0805 | | | £0.01 | £0.03 |
| 1 | R12 | Resistor, 1% | 19K1 | Generic | | 679-0970 | 603-RC0805FR-0719K1L | R0805 | | | £0.01 | £0.01 |
| 1 | R9 | Resistor, 1% | 1K | Generic | | 223-0427 | 603-RC0805FR-071KL | R0805 | | | £0.01 | £0.01 |
| 1 | R11 | Resistor, 1% | 1M | Generic | | 901-3709 | 603-RC0805FR-131ML | R0805 | | | £0.01 | £0.01 |
| 3 | R1, R6, R8 | Resistor, 1% | 20K | Generic | | 810-1748 | 603-RC0805FR-0720KL | R0805 | | | £0.02 | £0.05 |
| 1 | R10 | Resistor, 1% | 130k | Generic | | 679-0875 | 603-RC0805FR-07130kL | R0805 | | | £0.01 | £0.01 |
| 1 | R2 | Resistor, 1% | 2K2 | Generic | | 901-3695 | 603-RC0805FR-072K2L | R0805 | | | £0.01 | £0.01 |
| 1 | R3 | Resistor, 1% | 75k | Generic | | 679-1437 | 603-RC0805FR-0775kL | R0805 | | | £0.01 | £0.01 |
| 1 | R7 | Resistor, 1% | 4K12 | Generic | | 679-1474 | 603-RC0805FR-074K12L | R0805 | | | £0.01 | £0.01 |
| 4 | C6, C7, C8, C9 | Multilayer Ceramic Capacitor | 0.1u | Generic | | 669-8877 | 80-C0805C104M5R | C0805K | | | £0.01 | £0.03 |
| 1 | C1 | Multilayer Ceramic Capacitor | 15nF | Generic | | 915-5168 | 80-C0805C153K5R | C0805K | | | £0.09 | £0.09 |
| 1 | C3 | Multilayer Ceramic Capacitor | 22pF | Generic | | 464-6587 | 80-C0805C220J1G | C0805K | | | £0.02 | £0.02 |
| 3 | C2, C4, C5 | Electrolytic Capacitor | 10u | Generic | | 737-9704 | 80-EDK106M050A9GAA | 153CLV-0505 | | | £0.03 | £0.08 |
| 1 | U1 | TL072 | DUAL_OPAMP | Texas Instruments | TL072ACDR | 661-0054 | 595-TL072ACDR | DUAL_OPAMP | | | £0.47 | £0.47 |
| 1 | U2 | VCA Chip | THAT_2181_SMD | THAT Corp | THAT2181C | | 887-2181CS08-U | SOIC--8 | Profusion | THAT2181CS08-U | 4.9 | £4.90 |
| 1 | PWR | 2x5 Shrouded Header | | Generic | | | 710-61201021621 | 2X5-SHROUDED | Rapid | 19-0035 | 0.17 | £0.17 |
| 1 | Panel | Panel | | GMSN! | m-p-vca-v2-panel | | | | | | 5 | £5.00 |
| 2 | CV_LEVEL, OFFSET | Alpha Vertical Potentiometer | B100K | Alpha | | | | Q-POT | Thonk | | 1.42 | £2.84 |
| 3 | CV_IN, SIG_IN, SIG_OUT | 3.5mm Jack Mono | Thonkiconn - PJ301M-12 | Thonk | PJ301M-12 | | | S_JACK | Thonk | | 0.39 | £1.17 |
| 1 | TR1 | 25 Turn Trimpot *** | 50K | Generic | | 521-9805 | 652-3296W-1-503LF | TRIM_3269W | | | £2.13 | £2.13 |
| 2 | CV_LEVEL, OFFSET | Davis 1900h Clone | Black | Davis | | | | | Thonk | | 0.7 | £1.40 |
| 1 | BUSS | DNP | DNP | DNP | DNP | | DNP | DNP | DNP | | | |
| 1 | | Power Cable | 10Pin - 16Pin | Generic | acc-cable-pwr-10-16 | | | | | | 0.5 | 0.5 |
| 2 | | Machine Screw | M3 6mm | Generic | acc-screw-m3-6mm | | | | | | 0.02 | 0.04 |
| Total | | | | | | | | | | | | £18.15 |

*** The trimmer is a through hole component, however the PCB might have pads for an SMD part. Just bend and snip the legs over.